

AD-786 852

RADAR SIGNATURE MEASUREMENTS OF BQM-
34A AND BQM-34F TARGET DRONES.
VOLUME 1c

Test Group (6585th)

Prepared for:

Air Force Special Weapons Center

January 1974

DISTRIBUTED BY:

NTIS

National Technical Information Service
U. S. DEPARTMENT OF COMMERCE
5285 Port Royal Road, Springfield Va. 22151

DISCLAIMER NOTICE

**THIS DOCUMENT IS BEST QUALITY
PRACTICABLE. THE COPY FURNISHED
TO DTIC CONTAINED A SIGNIFICANT
NUMBER OF PAGES WHICH DO NOT
REPRODUCE LEGIBLY.**

AD 786852

AFSWC-TR-74-01
January 1974

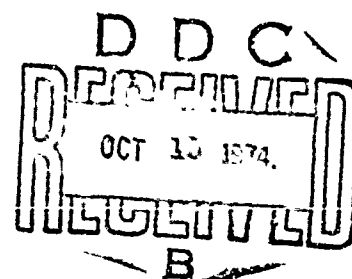
AIR FORCE SPECIAL WEAPONS CENTER

RADAR SIGNATURE MEASUREMENTS OF BQM-34A AND BQM-34F TARGET DRONES

6585th TEST GROUP
HOLLOMAN AIR FORCE BASE, NEW MEXICO

Distribution of this report is unlimited.

Reproduced by
NATIONAL TECHNICAL
INFORMATION SERVICE
U.S. Department of Commerce
Springfield, VA 22151



RAT SCAT
Radar Target Scatter Division

AFSWC-TR-74-01

RADAR SIGNATURE MEASUREMENTS OF BQM-34A AND BQM-34F TARGET DRONES

January 1974

Distribution of this report is unlimited.

THE RADAR TARGET SCATTER DIVISION (RAT SCAT)
6585th Test Group

1a

NOTICES

When U. S. Government drawings, specifications, or other data are used for any purpose other than a definitely related Government procurement operation, the Government thereby incurs no responsibility nor any obligation whatsoever, and the fact that the Government may have formulated, furnished, or in any way supplied the said drawings, specifications, or other data, is not to be regarded by implication or otherwise, or in any manner licensing the holder or any other person or corporation, or conveying any rights or permission to manufacture, use, or sell any patented invention that may in any way be related.

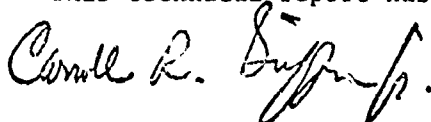
Do not return this copy. Retain or destroy.

FOREWORD

This report is based on actual radar cross section measurements made at the USAF Special Weapons Centers' Radar Target Scatter Division (RAT SCAT) of the 6585th Test Group. RAT SCAT is located on the Alkali Flats, Holloman Air Force Base, New Mexico. This Facility is operated and maintained by Dynallectron Corporation, Radar Backscatter Division, under contract F29601-73-C-0133, and is under the specific direction of the 6585th Test Group. The AF Project Officer is Lt Colonel Carroll R. Griffin.

Correspondence pertaining to this report should be addressed to the attention of the 6585th Test Group (RX).

This technical report has been reviewed and is approved.



CARROLL R. GRIFFIN, Lt Colonel, USAF
Chief, Radar Target Scatter Division

ABSTRACT

Radar signature data were acquired from BQM-34A and BQM-34F remotely piloted vehicles at the U.S. Air Force Special Weapons Centers' Radar Target Scatter Division (RAT SCAT), 6585th Test Group, Holloman AFB, New Mexico. Monostatic measurements of the components of the target scattering matrix, monostatic and 30 degree bistatic measurements of target glint, as well as 10 and 20 degree bistatic measurements of target cross section were performed using vertical and horizontal antenna polarizations. Data were obtained from both the principal and crossed polarized components of the target return. Sixteen orientations of each vehicle were measured at a frequency of 5500 MHz.

This report is published in three parts, each of which presents data acquired from both BQM-34 vehicles. Part a is limited to monostatic radar cross section and glint data. Part b presents radar cross section data acquired at bistatic angles of 10 and 20 degrees. Radar cross section and glint data acquired at a bistatic angle of 30 degrees are contained in Part c.

INTRODUCTION
SECTION I

This report documents radar cross section, phase and glint measurements of BQM-34A and BQM-34F target drones performed at the U. S. Air Force Special Weapons Centers' Radar Target Scatter Division (RAT SCAT), 6585th Test Group, Holloman Air Force Base, New Mexico. Monostatic, 10 degree bistatic, 20 degree bistatic, and 30 degree bistatic radar cross section data were acquired at a frequency of 5500 MHz using horizontal, vertical, and cross polarization. Monostatic and 30 degree bistatic target glint data were acquired concurrently with the cross section measurements. Phase data were obtained at the three measurement system polarizations for the monostatic case only.

Measurements were performed at vehicle roll angles of 0, 30, 60 and 90 degrees at vehicle pitch angles of 0, 10, 20 and 30 degrees providing a total of sixteen orientations for each target vehicle. Measurements of the BQM-34F target were performed with the vehicle in an inverted position. Consequently, all aspect referenced data for that target are the mirror images of those which would have been obtained had the vehicle not been inverted. Measurements of the BQM-34A target were performed with the target in the normal, non-inverted position.

This report is published in three parts, each of which contains data acquired from both the BQM-34A and BQM-34F vehicles. Monostatic data are presented in Part a, ten and twenty degree bistatic data are presented in Part b and thirty degree bistatic data are presented in Part c.

A description of the measurement conditions is presented in Part a, Section II. The target drone measurement programs were requested by the U. S. Army Missile Command (AMSNI-RER), Redstone Arsenal, Alabama.

CONTROL NUMBER 72-17 Table I DATA PLOT INDEX Sheet 1

PAGE NO.	RUN	FREQ (MHz)	POLARIZATION	PITCH ANGLE	ROLL ANGLE	BISTATIC ANGLE	TARGET CONFIGURATION AND REMARKS
8	1025A	5500	HH	0°	0°	30°	BQM-34A, RCS
9	1025G	5500	HH	0	0	30	BQM-34A, Glint
10	1023A	5500	VV	0	0	30	BQM-34A, RCS
11	1023G	5500	VV	0	0	30	BQM-34A, Glint
12	1024A	5500	VH	0	0	30	BQM-34A, RCS
13	1024G	5500	VH	0	0	30	BQM-34A, Glint
14	1026A	5500	HH	0	30	30	BQM-34A, RCS
15	1026G	5500	HH	0	30	30	BQM-34A, Glint
16	1028A	5500	VV	0	30	30	BQM-34A, RCS
17	1028G	5500	VV	0	30	30	BQM-34A, Glint
18	1027A	5500	VH	0	30	30	BQM-34A, RCS
19	1027G	5500	VH	0	30	30	BQM-34A, Glint
20	1031A	5500	HH	0	60	30	BQM-34A, RCS
21	1031G	5500	HH	0	60	30	BQM-34A, Glint
22	1029A	5500	VV	0	60	30	BQM-34A, RCS
23	1029G	5500	VV	0	60	30	BQM-34A, Glint
24	1030A	5500	VH	0	60	30	BQM-34A, RCS
25	1030G	5500	VH	0	60	30	BQM-34A, Glint
26	1032A	5500	HH	0	90	30	BQM-34A, RCS
27	1032G	5500	HH	0	90	30	BQM-34A, Glint
28	1034A	5500	VV	0	90	30	BQM-34A, RCS
29	1034G	5500	VV	0	90	30	BQM-34A, Glint
30	1033A	5500	VH	0	90	30	BQM-34A, RCS
31	1033G	5500	VH	0	90	30	BQM-34A, Glint
32	1012A	5500	HH	10	0	30	BQM-34A, RCS
33	1012G	5500	HH	10	0	30	BQM-34A, Glint
34	1014A	5500	VV	10	0	30	BQM-34A, RCS
35	1014G	5500	VV	10	0	30	BQM-34A, Glint
36	1013A	5500	VH	10	0	30	BQM-34A, RCS
37	1013G	5500	VH	10	0	30	BQM-34A, Glint
38	1017A	5500	HH	10	30	30	BQM-34A, RCS
39	1017G	5500	HH	10	30	30	BQM-34A, Glint

CONTROL NUMBER 72-17

Table I

DATA PLOT INDEX

Sheet 2

PAGE NO.	RUN	FREQ (MHz)	POLARIZATION	PITCH ANGLE	ROLL ANGLE	BISTATIC ANGLE	TARGET CONFIGURATION AND REMARKS
40	1015A	5500	VV	10	30	30	BQM-34A, RCS
41	1015G	5500	VV	10	30	30	BQM-34A, Glint
42	1016A	5500	VH	10	30	30	BQM-34A, RCS
43	1016G	5500	VH	10	30	30	BQM-34A, Glint
44	1018A	5500	HH	10	60	30	BQM-34A, RCS
45	1018G	5500	HH	10	60	30	BQM-34A, Glint
46	1020A	5500	VV	10	60	30	BQM-34A, RCS
47	1020G	5500	VV	10	60	30	BQM-34A, Glint
48	1019A	5500	VH	10	60	30	BQM-34A, RCS
49	1019G	5500	VH	10	60	30	BQM-34A, Glint
50	997A	5500	HH	10	90	30	BQM-34A, RCS
51	997G	5500	HH	10	90	30	BQM-34A, Glint
52	995A	5500	VV	10	90	30	BQM-34A, RCS
53	995G	5500	VV	10	90	30	BQM-34A, Glint
54	996A	5500	VH	10	90	30	BQM-34A, RCS
55	996G	5500	VH	10	90	30	BQM-34A, Glint
56	1011A	5500	HH	20	0	30	BQM-34A, RCS
57	1011G	5500	HH	20	0	30	BQM-34A, Glint
58	1009A	5500	VV	20	0	30	BQM-34A, RCS
59	1009G	5500	VV	20	0	30	BQM-34A, Glint
60	1010A	5500	VH	20	0	30	BQM-34A, RCS
61	1010G	5500	VH	20	0	30	BQM-34A, Glint
62	1006A	5500	HH	20	30	30	BQM-34A, RCS
63	1006G	5500	HH	20	30	30	BQM-34A, Glint
64	1008A	5500	VV	20	30	30	BQM-34A, RCS
65	1008G	5500	VV	20	30	30	BQM-34A, Glint
66	1007A	5500	VH	20	30	30	BQM-34A, RCS
67	1007G	5500	VH	20	30	30	BQM-34A, Glint
68	1005A	5500	HH	20	60	30	BQM-34A, RCS
69	1005G	5500	HH	20	60	30	BQM-34A, Glint
70	1003A	5500	VV	20	60	30	BQM-34A, RCS
71	1003G	5500	VV	20	60	30	BQM-34A, Glint

CONTROL NUMBER 72-17 Table I DATA PLOT INDEX Sheet 3

PAGE NO.	RUN	FREQ (MHz)	POLARIZATION	PITCH ANGLE	ROLL ANGLE	BISTATIC ANGLE	TARGET CONFIGURATION AND REMARKS
72	1004A	5500	VH	20°	60°	30°	BQM-34A, RCS
73	1004G	5500	VH	20	60	30	BQM-34A, Glint
74	998A	5500	HH	20	90	30	BQM-34A, RCS
75	998G	5500	HH	20	90	30	BQM-34A, Glint
76	1000A	5500	VV	20	90	30	BQM-34A, RCS
77	1000G	5500	VV	20	90	30	BQM-34A, Glint
78	999A	5500	VH	20	90	30	BQM-34A, RCS
79	999G	5500	VH	20	90	30	BQM-34A, Glint
80	987A	5500	HH	30	0	30	BQM-34A, RCS
81	987G	5500	HH	30	0	30	BQM-34A, Glint
82	989A	5500	VV	30	0	30	BQM-34A, RCS
83	989G	5500	VV	30	0	30	BQM-34A, Glint
84	988A	5500	VH	30	0	30	BQM-34A, RCS
85	988G	5500	VH	30	0	30	BQM-34A, Glint
86	983A	5500	HH	30	30	30	BQM-34A, RCS
87	983G	5500	HH	30	30	30	BQM-34A, Glint
88	981A	5500	VV	30	30	30	BQM-34A, RCS
89	981G	5500	VV	30	30	30	BQM-34A, Glint
90	982A	5500	VH	30	30	30	BQM-34A, RCS
91	982G	5500	VH	30	30	30	BQM-34A, Glint
92	992A	5500	HH	30	60	30	BQM-34A, RCS
93	992G	5500	HH	30	60	30	BQM-34A, Glint
94	990A	5500	VV	30	60	30	BQM-34A, RCS
95	990G	5500	VV	30	60	30	BQM-34A, Glint
96	991A	5500	VH	30	60	30	BQM-34A, RCS
97	991G	5500	VH	30	60	30	BQM-34A, Glint
98	978A	5500	HH	30	90	30	BQM-34A, RCS
99	978G	5500	HH	30	90	30	BQM-34A, Glint
100	980A	5500	VV	30	90	30	BQM-34A, RCS
101	980G	5500	VV	30	90	30	BQM-34A, Glint
102	979A	5500	VH	30	90	30	BQM-34A, RCS
103	979G	5500	VH	30	90	30	BQM-34A, Glint

CONTROL NUMBER 72-17 Table I DATA PLOT INDEX Sheet 4

PAGE NO.	RUN	FREQ (MHz)	POLARIZATION	PITCH ANGLE	ROLL ANGLE	BISTATIC ANGLE	TARGET CONFIGURATION AND REMARKS
104	1041A	5500	HH	0°	0°	30°	BQM-34F, RCS
105	1041G	5500	HH	0	0	30	BQM-34F, Glint
106	1039A	5500	VV	0	0	30	BQM-34F, RCS
107	1039G	5500	VV	0	0	30	BQM-34F, Glint
108	1040A	5500	VH	0	0	30	BQM-34F, RCS
109	1040G	5500	VH	0	0	30	BQM-34F, Glint
110	1042A	5500	HH	0	30	30	BQM-34F, RCS
111	1042G	5500	HH	0	30	30	BQM-34F, Glint
112	1044A	5500	VV	0	30	30	BQM-34F, RCS
113	1044G	5500	VV	0	30	30	BQM-34F, Glint
114	1043A	5500	VH	0	30	30	BQM-34F, RCS
115	1043G	5500	VH	0	30	30	BQM-34F, Glint
116	1047A	5500	HH	0	60	30	BQM-34F, RCS
117	1047G	5500	HH	0	60	30	BQM-34F, Glint
118	1045A	5500	VV	0	60	30	BQM-34F, RCS
119	1045G	5500	VV	0	60	30	BQM-34F, Glint
120	1046A	5500	VH	0	60	30	BQM-34F, RCS
121	1046G	5500	VH	0	60	30	BQM-34F, Glint
122	1048A	5500	HH	0	90	30	BQM-34F, RCS
123	1048G	5500	HH	0	90	30	BQM-34F, Glint
124	1050A	5500	VV	0	90	30	BQM-34F, RCS
125	1050G	5500	VV	0	90	30	BQM-34F, Glint
126	1049A	5500	VH	0	90	30	BQM-34F, RCS
127	1049G	5500	VH	0	90	30	BQM-34F, Glint
128	1060A	5500	HH	10	0	30	BQM-34F, RCS
129	1060G	5500	HH	10	0	30	BQM-34F, Glint
130	1062A	5500	VV	10	0	30	BQM-34F, RCS
131	1062G	5500	VV	10	0	30	BQM-34F, Glint
132	1061A	5500	VH	10	0	30	BQM-34F, RCS
133	1061G	5500	VH	10	0	30	BQM-34F, Glint
134	1059A	5500	HH	10	30	30	BQM-34F, RCS
135	1059G	5500	HH	10	30	30	BQM-34F, Glint

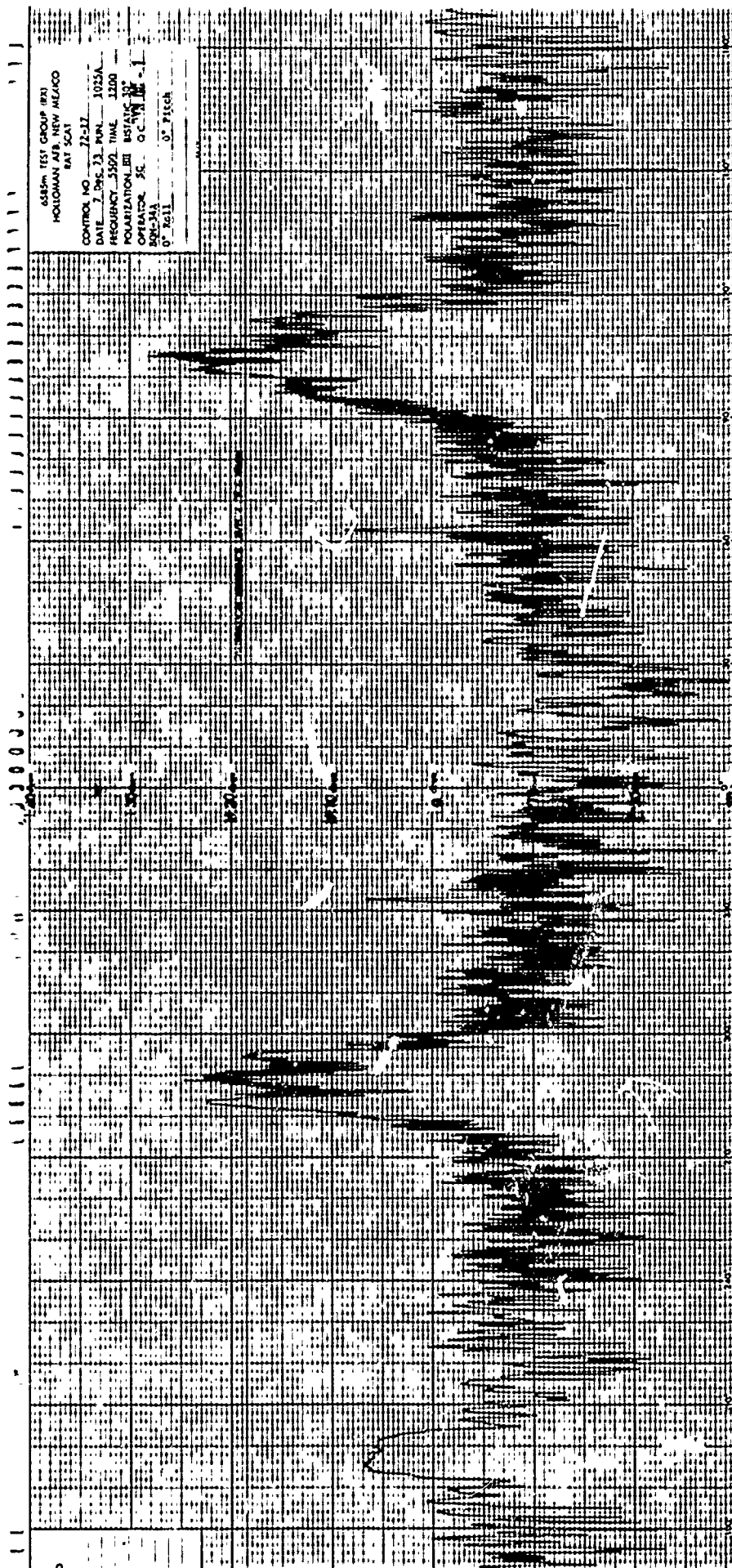
CONTROL NUMBER 72-17		Table I			DATA PLOT INDEX		Sheet 5	
PAGE NO.	RUN	FREQ (MHz)	POLARIZATION	PITCH ANGLE	ROLL ANGLE	BISTATIC ANGLE	TARGET CONFIGURATION AND REMARKS	
136	1057A	5500	VV	10°	30°	30°	BQM-34F, RCS	
137	1057G	5500	VV	10	30	30	BQM-34F, Glint	
138	1058A	5500	VH	10	30	30	BQM-34F, RCS	
139	1058G	5500	VH	10	30	30	BQM-34F, Glint	
140	1054A	5500	HH	10	60	30	BQM-34F, RCS	
141	1054G	5500	HH	10	60	30	BQM-34F, Glint	
142	1056A	5500	VV	10	60	30	BQM-34F, RCS	
143	1056G	5500	VV	10	60	30	BQM-34F, Glint	
144	1055A	5500	VH	10	60	30	BQM-34F, RCS	
145	1055G	5500	VH	10	60	30	BQM-34F, Glint	
146	1053A	5500	HH	10	90	30	BQM-34F, RCS	
147	1053G	5500	HH	10	90	30	BQM-34F, Glint	
148	1051A	5500	VV	10	90	30	BQM-34F, RCS	
149	1051G	5500	VV	10	90	30	BQM-34F, Glint	
150	1052A	5500	VH	0	90	30	BQM-34F, RCS	
151	1052G	5500	VH	10	90	30	BQM-34F, Glint	
152	1065A	5500	HH	20	0	30	BQM-34F, RCS	
153	1065G	5500	HH	20	0	30	BQM-34F, Glint	
154	1067A	5500	VV	20	0	30	BQM-34F, RCS	
155	1067G	5500	VV	20	0	30	BQM-34F, Glint	
156	1066A	5500	VH	20	0	30	BQM-34F, RCS	
157	1066G	5500	VH	20	0	30	BQM-34F, Glint	
158	1078A	5500	HH	20	30	30	BQM-34F, RCS	
159	1078G	5500	HH	20	30	30	BQM-34F, Glint	
160	1076A	5500	VV	20	30	30	BQM-34F, RCS	
161	1076G	5500	VV	20	30	30	BQM-34F, Glint	
162	1077A	5500	VH	20	30	30	BQM-34F, RCS	
163	1077G	5500	VH	20	30	30	BQM-34F, Glint	
164	1070A	5500	HH	20	60	30	BQM-34F, RCS	
165	1070G	5500	HH	20	60	30	BQM-34F, Glint	
166	1068A	5500	VV	20	60	30	BQM-34F, RCS	
167	1068G	5500	VV	20	60	30	BQM-34F, Glint	
168	1069A	5500	VH	20	60	30	BQM-34F, RCS	
169	1069G	5500	VH	20	60	30	BQM-34F, Glint	

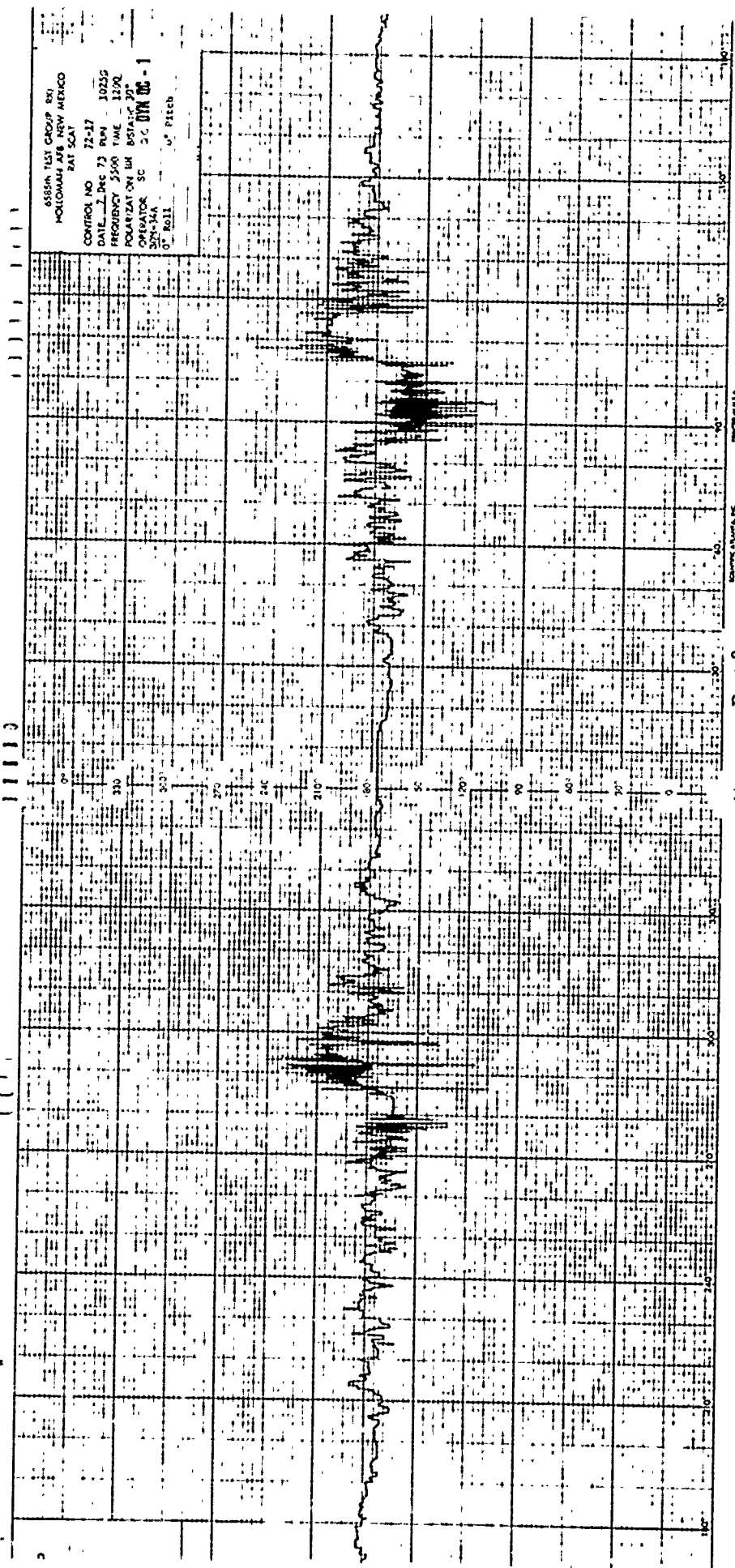
CONTROL NUMBER 72-17 DATA PLOT INDEX Table I Sheet 6

PAGE NO.	RUN	FREQ (MHz)	POLARIZATION	PITCH ANGLE	ROLL ANGLE	BISTATIC ANGLE	TARGET CONFIGURATION AND REMARKS
170	1073A	5500	HH	20°	90°	30°	BQM-34F, RCS
171	1073G	5500	HH	20	90	30	BQM-34F, Glint
172	1075A	5500	VV	20	90	30	BQM-34F, RCS
173	1075G	5500	VV	20	90	30	BQM-34F, Glint
174	1074A	5500	VH	20	90	30	BQM-34F, RCS
175	1074G	5500	VH	20	90	30	BQM-34F, Glint
176	1093A	5500	HH	30	0	30	BQM-34F, RCS
177	1093G	5500	HH	30	0	30	BQM-34F, Glint
178	1095A	5500	VV	30	0	30	BQM-34F, RCS
179	1095G	5500	VV	30	0	30	BQM-34F, Glint
180	1094A	5500	VH	30	0	30	BQM-34F, RCS
181	1094G	5500	VH	30	0	30	BQM-34F, Glint
182	1092A	5500	HH	30	30	30	BQM-34F, RCS
183	1092G	5500	HH	30	30	30	BQM-34F, Glint
184	1090A	5500	VV	30	30	30	BQM-34F, RCS
185	1090G	5500	VV	30	30	30	BQM-34F, Glint
186	1091A	5500	VH	30	30	30	BQM-34F, RCS
187	1091G	5500	VH	30	30	30	BQM-34F, Glint
188	1087A	5500	HH	30	60	30	BQM-34F, RCS
189	1087G	5500	HH	30	60	30	BQM-34F, Glint
190	1089A	5500	VV	30	60	30	BQM-34F, RCS
191	1089G	5500	VV	30	60	30	BQM-34F, Glint
192	1088A	5500	VH	30	60	30	BQM-34F, RCS
193	1088G	5500	VH	30	60	30	BQM-34F, Glint
194	1086A	5500	HH	30	90	30	BQM-34F, RCS
195	1086G	5500	HH	30	90	30	BQM-34F, Glint
196	1084A	5500	VV	30	90	30	BQM-34F, RCS
197	1084G	5500	VV	30	90	30	BQM-34F, Glint
198	1085A	5500	VH	30	90	30	BQM-34F, RCS
199	1085G	5500	VH	30	90	30	BQM-34F, Glint

6585m TEST GROUP (RX)
HOLLAND AFB, NEW MEXICO
BAT SCAT

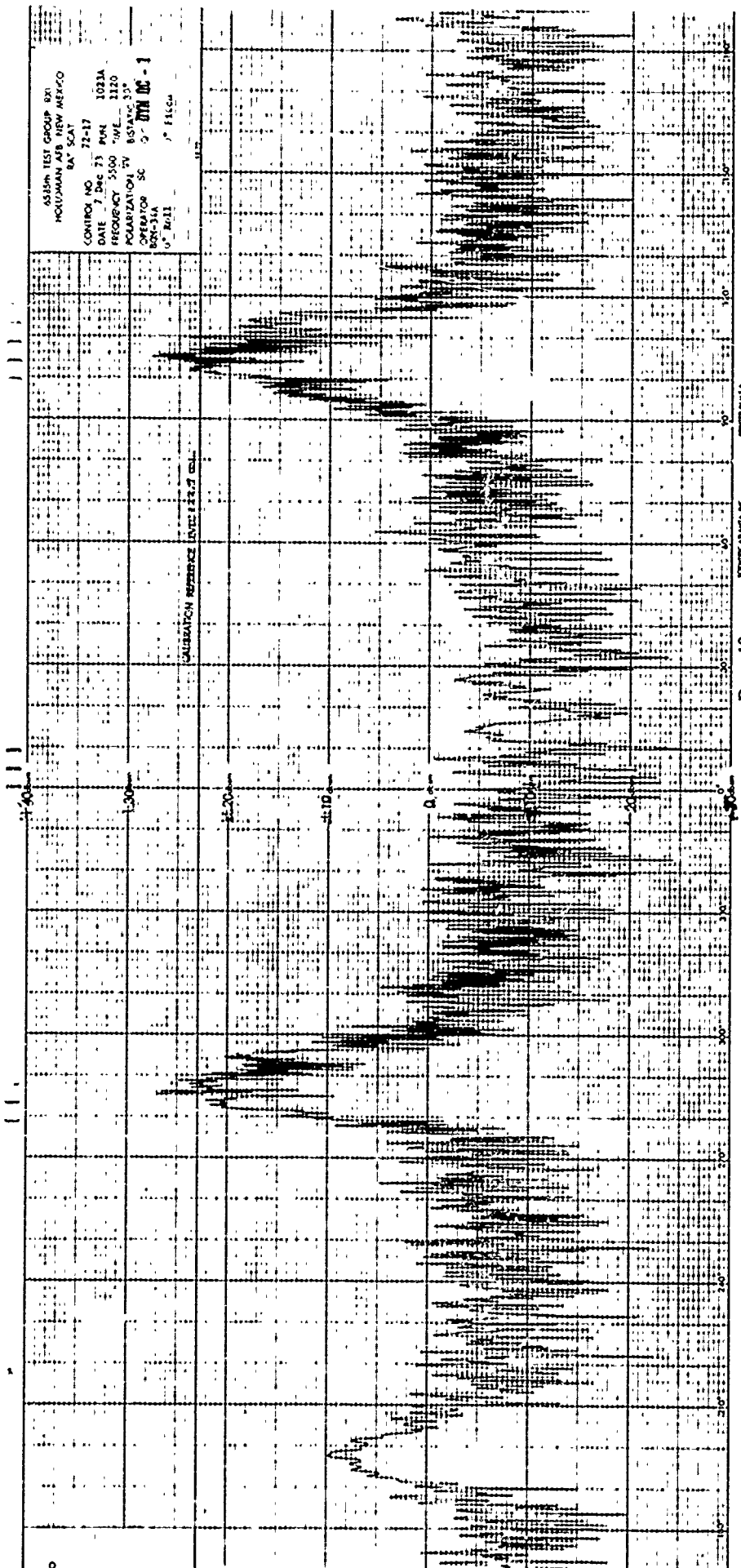
CONTROL NO. 72-17
DATE 7 Dec 73 RUN 1025A
FREQUENCY 5502 TIME 1200
POLARIZATION III BISTATIC 30°
OPERATOR SC QC
BOX-34A
0° Roll 0° Pitch



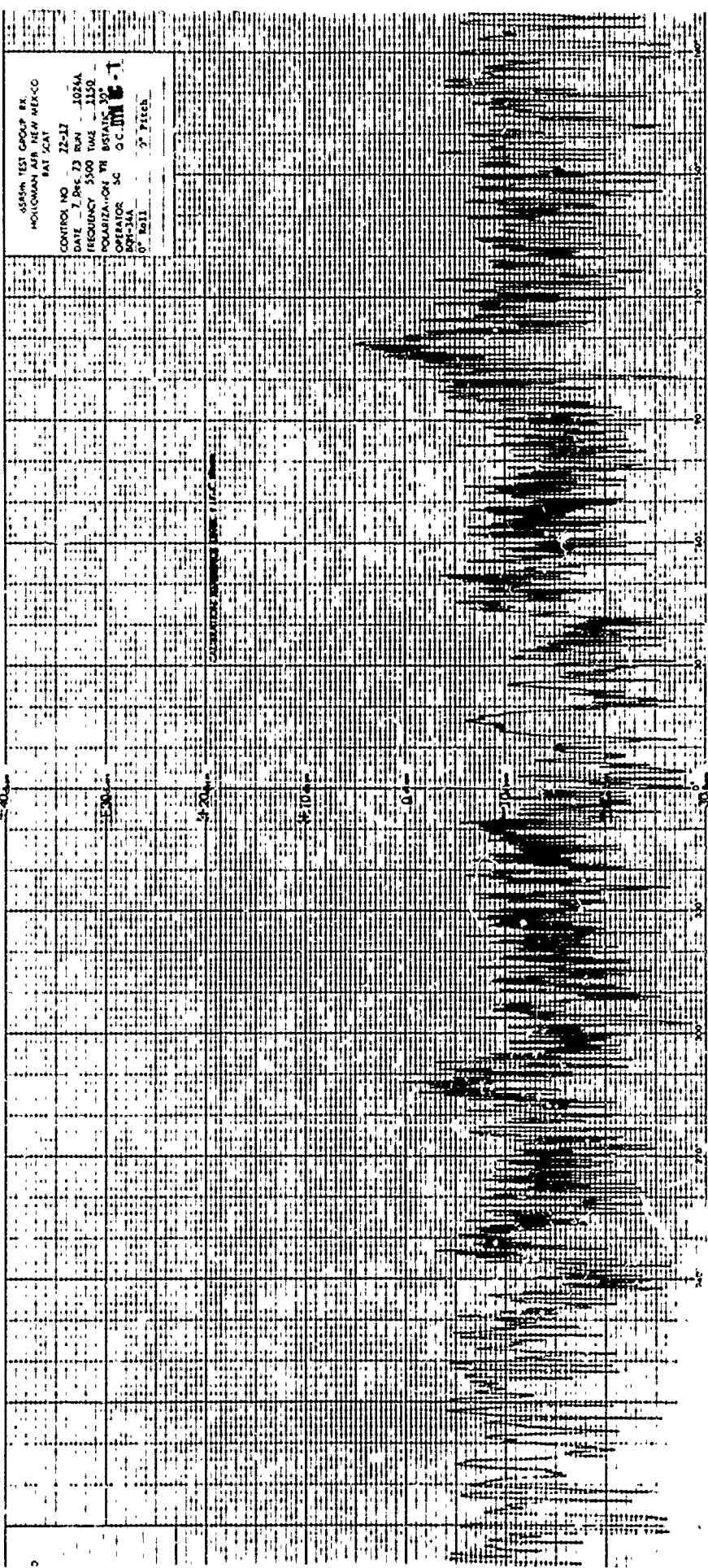


65354K TEST GROUP 021
 HOLLANDMAN AFB NEW MEXICO
 EA SCAT
 CONTROL NO 72-17 1031A
 DATE 7 Dec 73 0404 2120
 FREQUENCY 5500 W/L 3120
 POLARIZATION TV EASTING 33°
 OPERATOR SC
 BKN-31A
 U² Roll J² F16C4

CALCULATION REFERENCE DATE: 12.7.01



—



4545th TEST GROUP BK
MOLLOMAN AIR NEW MEXICO
BAT SCAT

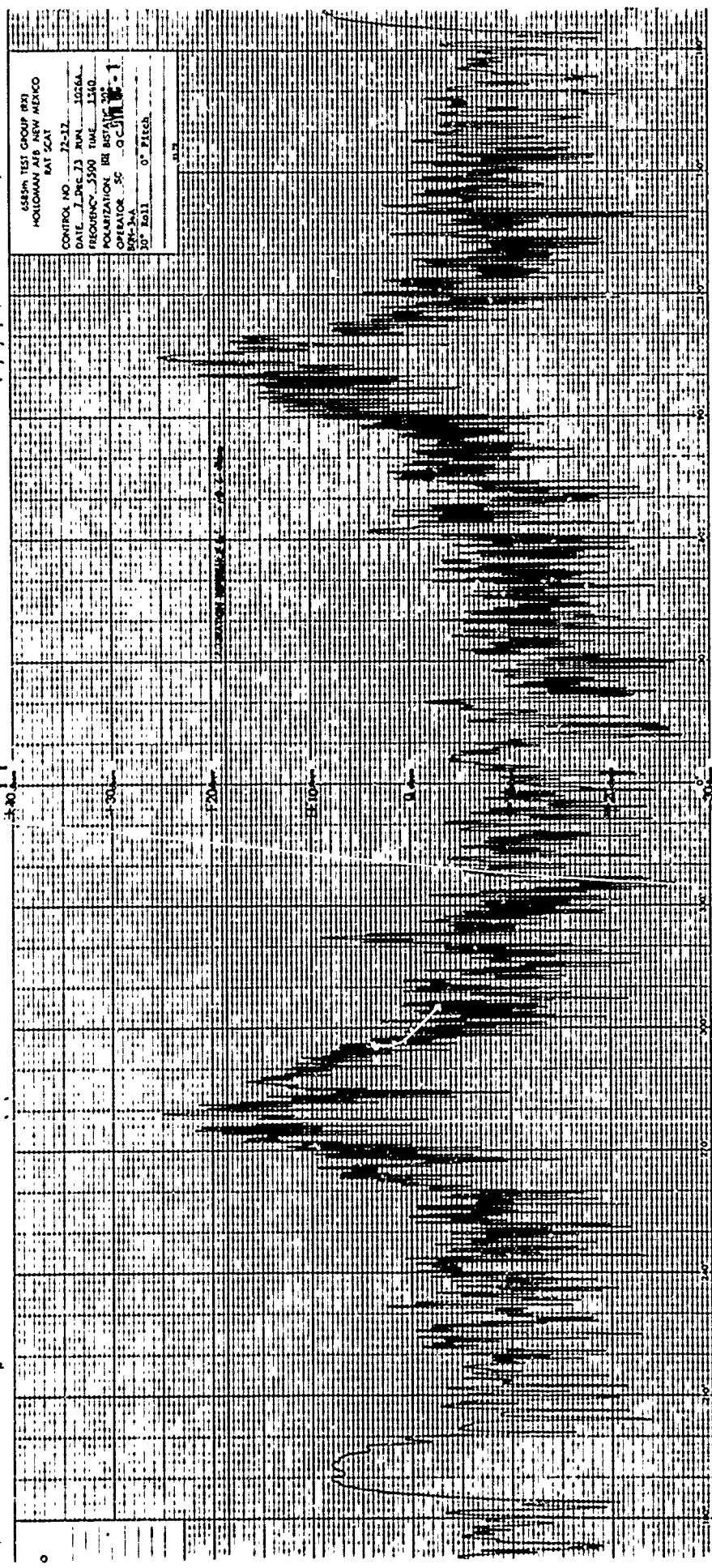
CONTROL NO 22-17
DATE 7 Dec 73 RPT 102AA
FREQUENCY 5500 TMS 1150
POLARIZATION WH BISTABLE 10°
OPERATOR SC GC 111 6-1
CUT BALL 27 Filed

Figure 2-1

222

6585th TEST GROUP (R3)
HOLLAMAN AFB NEW MEXICO
RAT SCAT

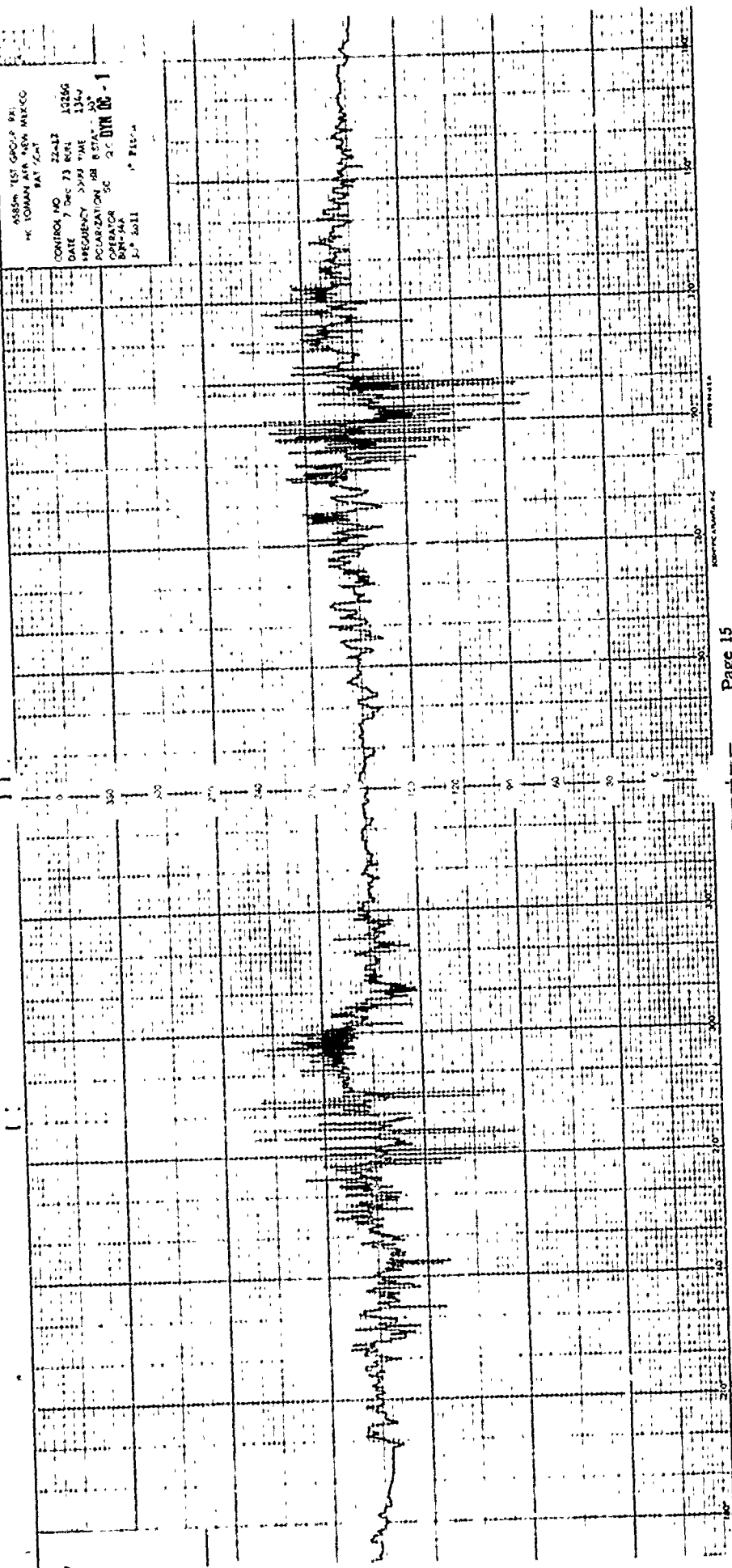
CONTROL NO. 72-37
DATE 7 Dec 73 RUN 1076A
FREQUENCY 3500 TIME 1340
POLARIZATION BE BISTATIC 30°
OPERATOR SC O C W B - 1
RPM-3A
30° Roll 0° Pitch

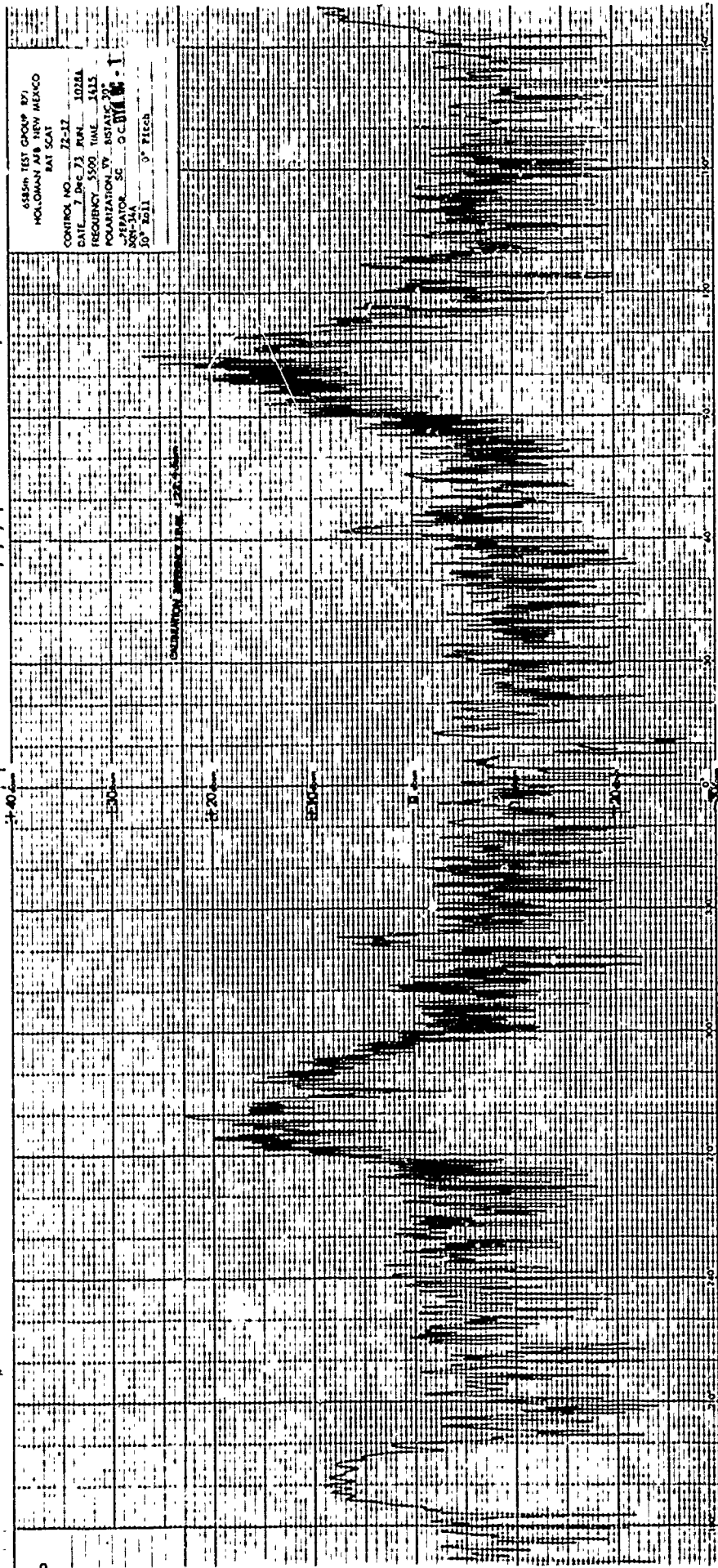


6585m TEST GROUP 891
 W. TOMAN LBN AREA WAKCO
 BAT 1/2"

CONTROL NO	22-13	10266
DATE	7 Dec 73	804
FREQUENCY	3.593	13.7
POLARIZATION	DB	EST
OPERATOR	SC	2 C
BN-4A		
5.0	5011	1.0

1.0 FEB 74
 01N 00-1





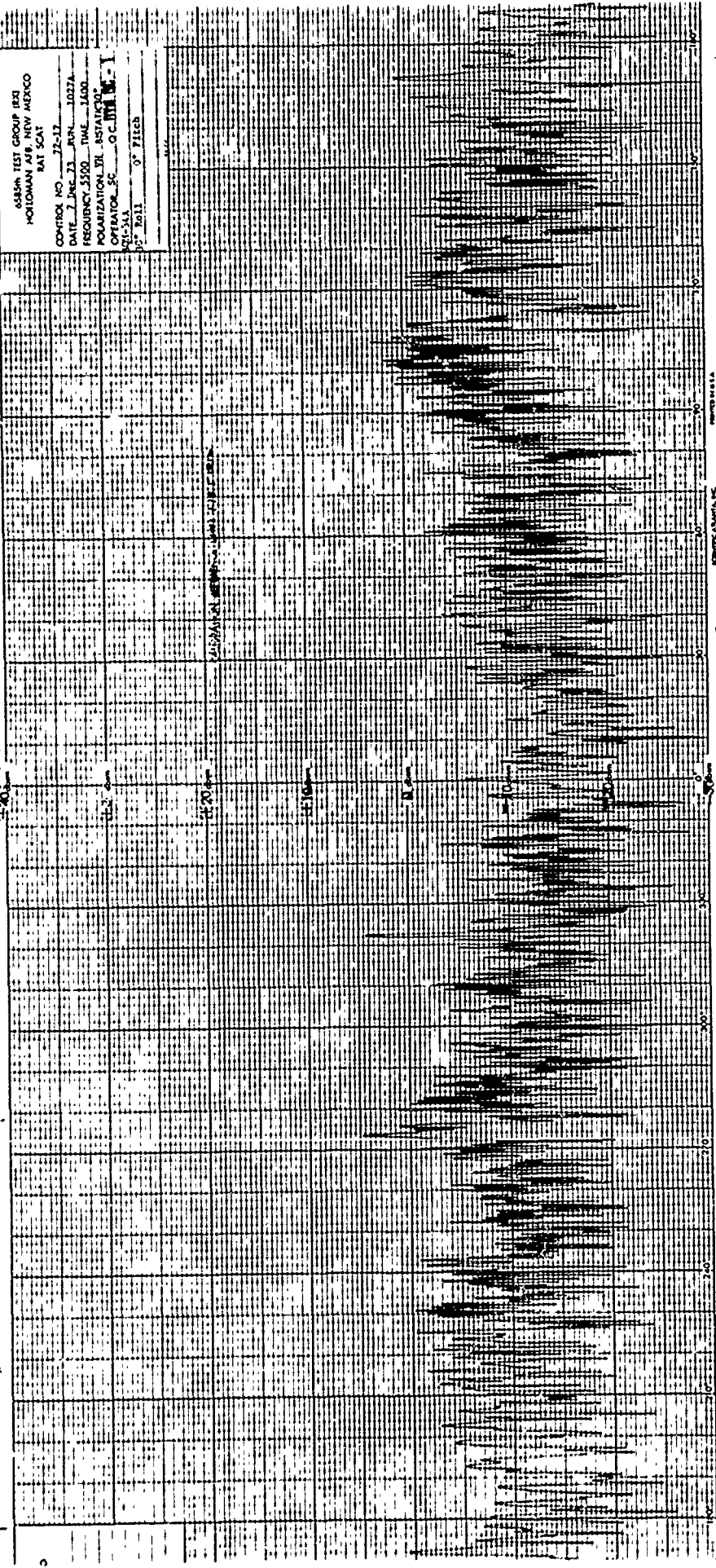
ASST. TEST GROUP 87/
HOLMAN AFB NEW MEXICO
BAT SCAT
CONTROL NO. 72-12
DATE 7-24-71 PM 1028A
FREQUENCY 5500 MHz
POLARIZATION V. H. 111
OPERATOR SC 0 CUBA 1
88-21A
30" Bell 9" Pitch

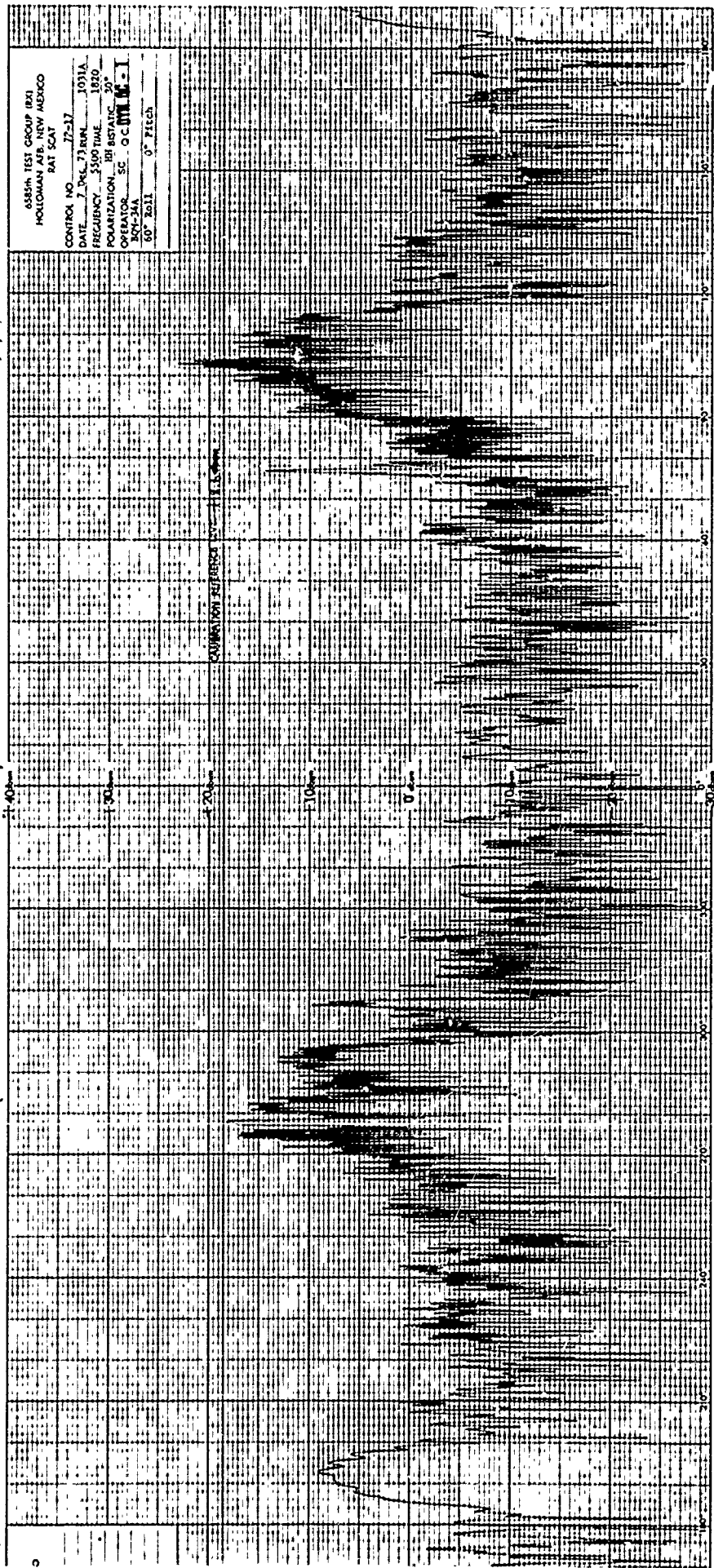
SUMMARY REPORT TIME 12:25 PM

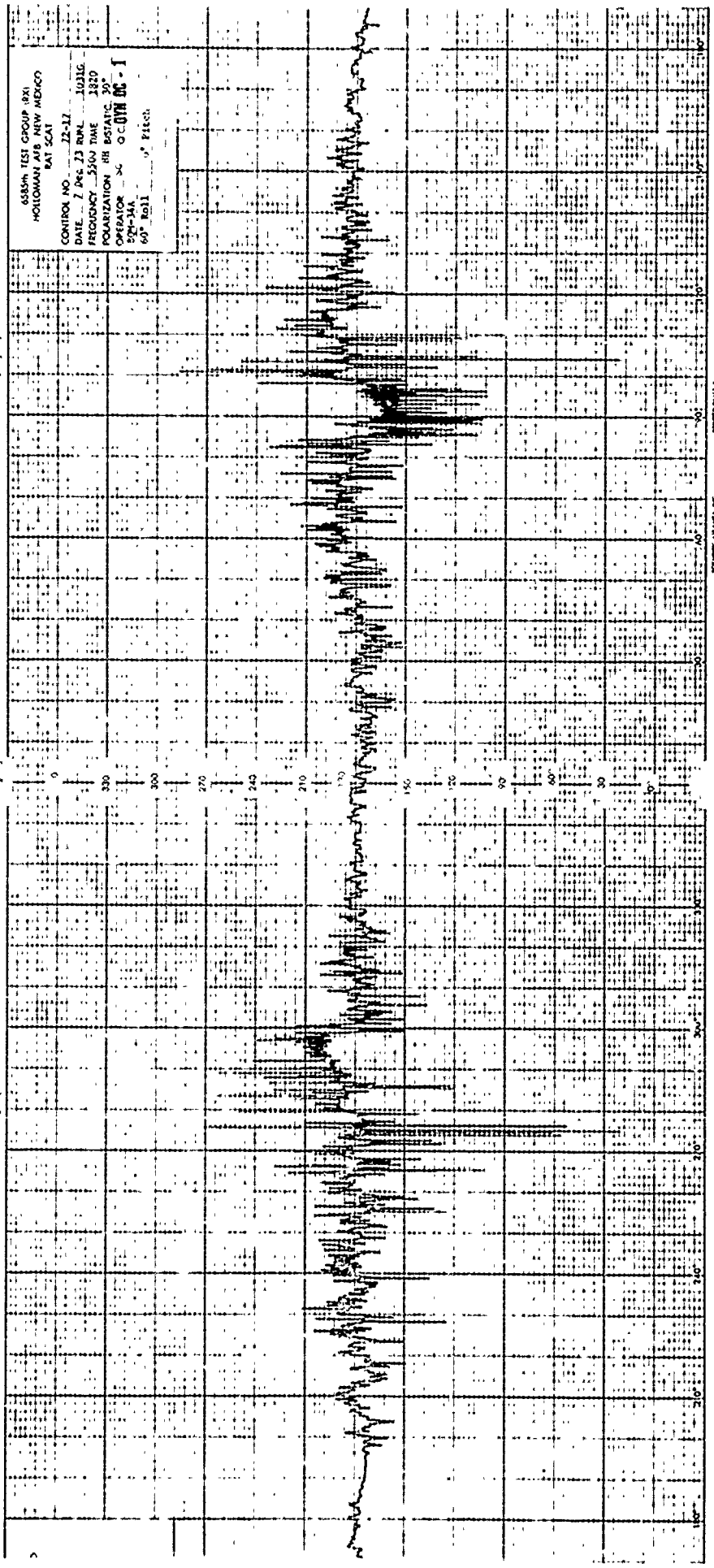
RECEIVED AT 10:10 AM

Page 16

655PM TEST GROUP 183
 HOLLOMAN AFB, NEW MEXICO
 RAT SCAT
 CONTROL NO. 22-12
 DATE 1 DEC 73 RUN 1027A
 FREQUENCY 5500 HZ 1600
 ORGANIZATION JR. 1554100
 OPERATOR JC GCM
 05-11 05 PITCH

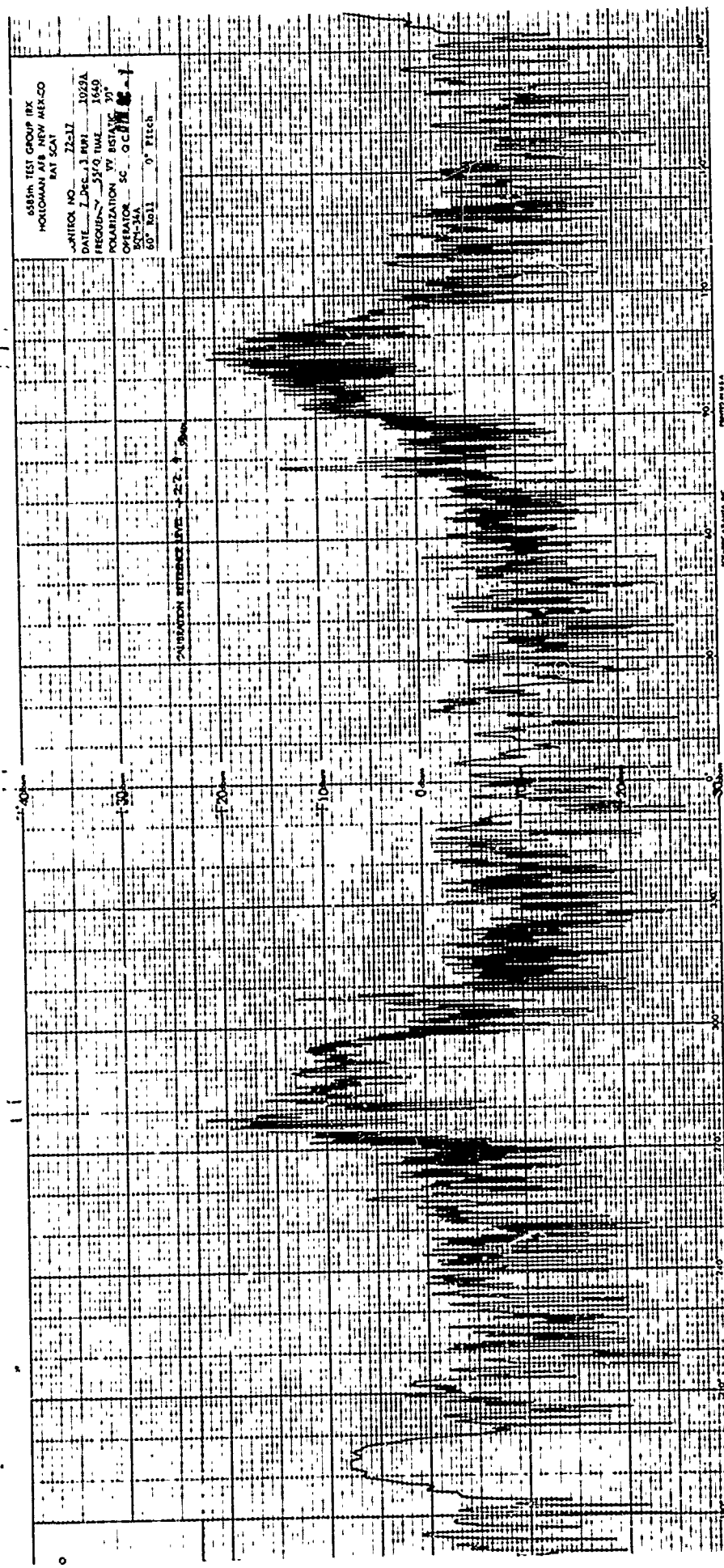






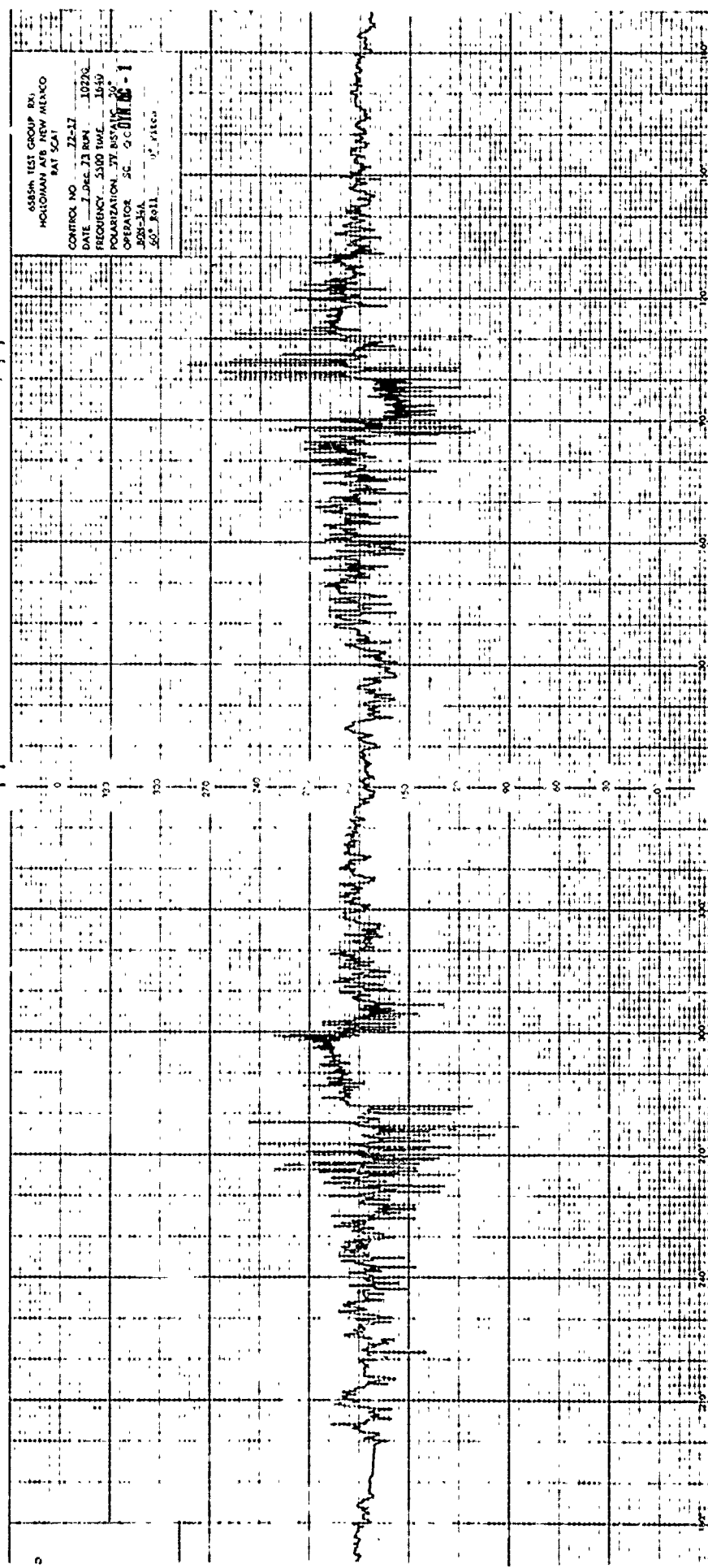
ASST. TEST GROUP 871
HOLLAND AFB, NEW MEXICO
BAT SCAT

CONTROL NO. 72-17
DATE 7 Apr 73 RWL 1015G
FREQUENCY 3500 MHz 1820
POLARIZATION RH ESTATE 90°
OPERATOR SC OCTH DC - 1
500-44A
60° 4011 9° Pitch

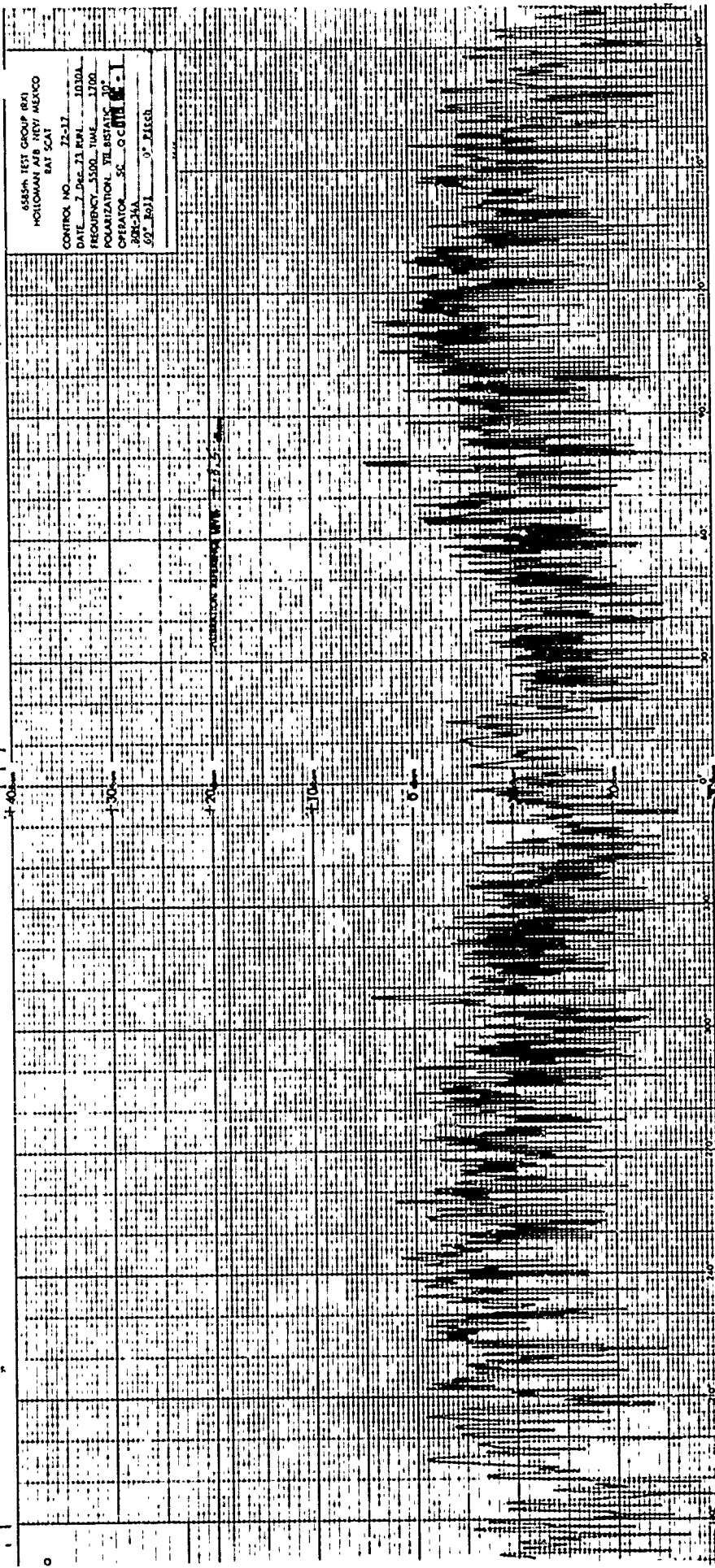


555th TEST GROUP IIX
HOLCOMB AFB NEW MEXICO
BAT 5041

UNIT NO. 72-11
DATE 1 DEC 11 PM 1059A
FREQUENCY 33.0 MHz 1650
POLARIZATION VV BISTATIC 30°
OPERATOR SC G.C. [signature]
EQU-34A
60° Roll 0° Pitch

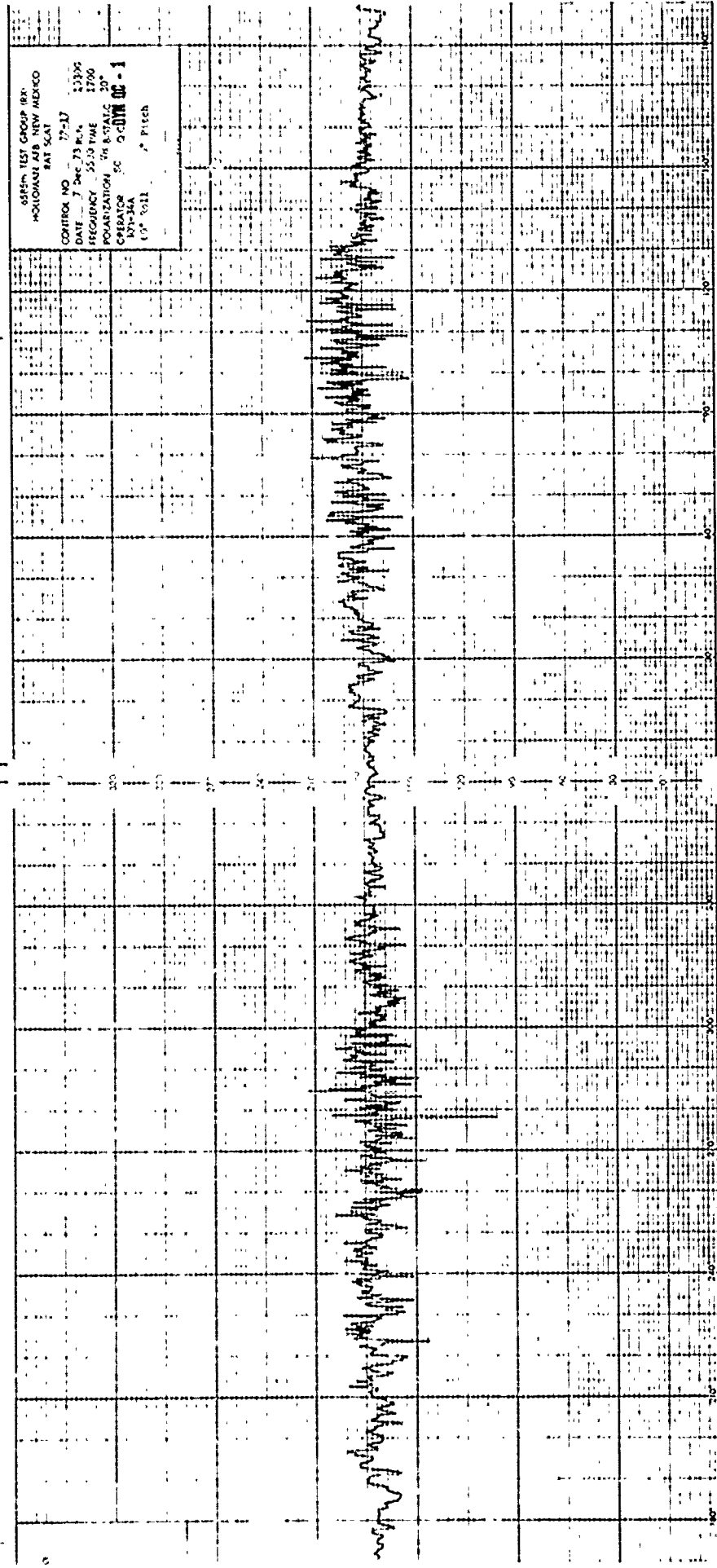


6555A TEST GROUP BX
HOLSTON AFB NEW MEXICO
BAT SCAT
CONTROL NO. 22-17
DATE 7 DEC 73 RUN 10720
FREQUENCY 5300 HMC 1540
POLARIZATION 37.85VAC 30
OPERATOR SC 00000000-1
J28-35A 50000000
60000000 50000000



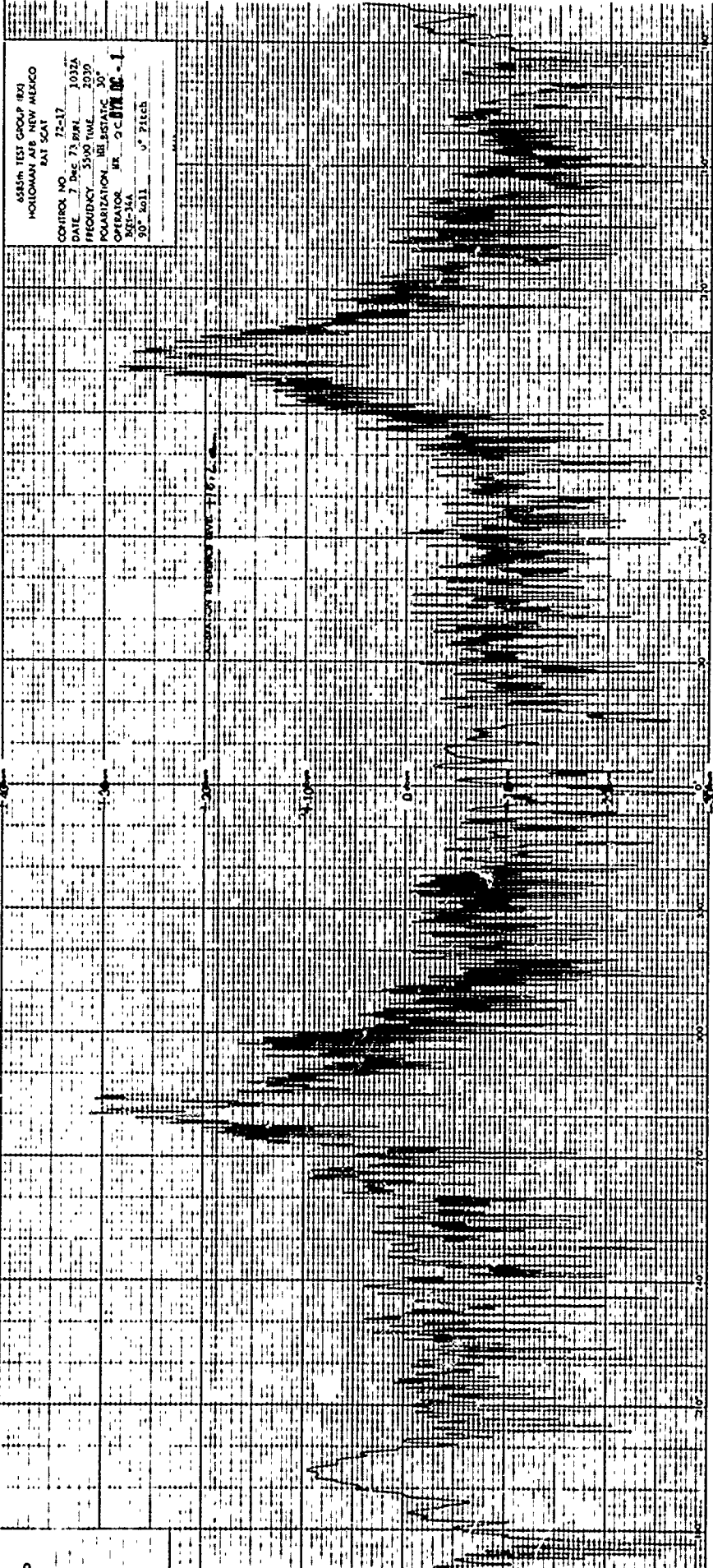
6533N TEST GROUP (R1)
HOTELMAN AFB NEW MEXICO
EAT SCAT

CONTROL NO. 72-17
DATE 7 Dec 71 RWL 1030A
FREQUENCY 5500 TIME 1700
POLARIZATION VERTICAL
OPERATOR SC O C 011 11
RNC-3A 0° 00' 00" E115W
0° 00' 00" E115W



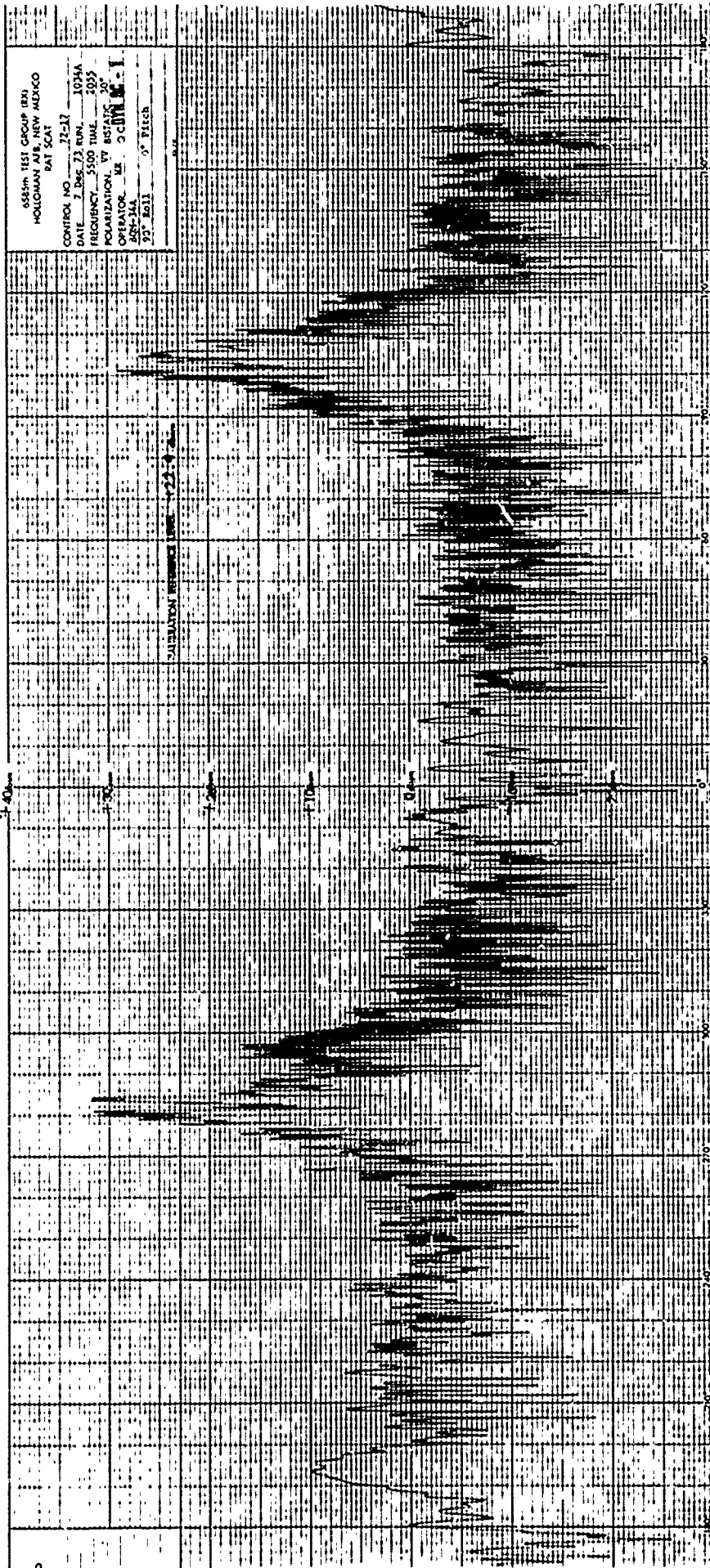
855M TEST GROUP 8K
HOLCOMB LAB NEW MEXICO
BAT SCAT

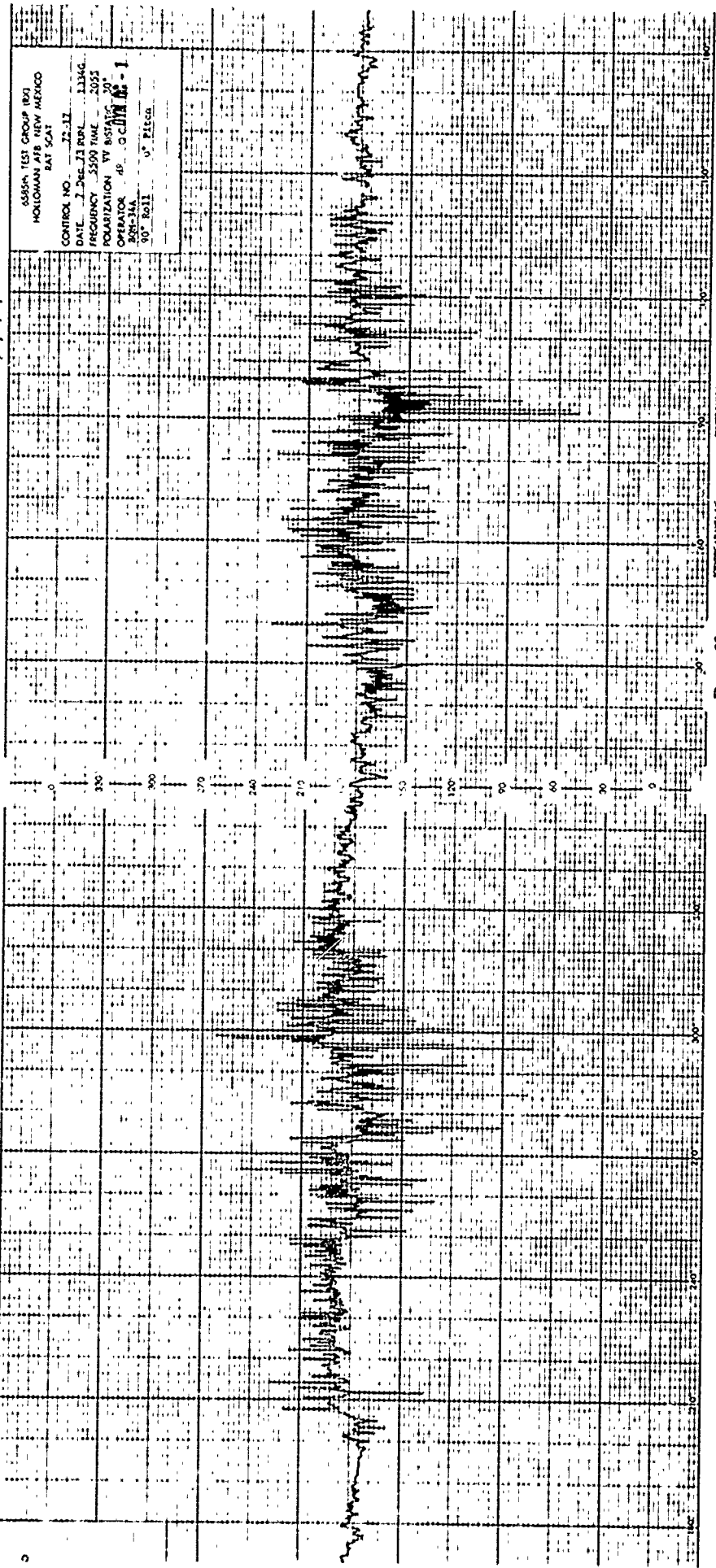
CONTROL NO 77-17
DATE 7 Dec 73 PCN 13395
FREQUENCY 55.0 TME 1700
POLARIZATION 7/8 B-STATE 30°
OPERATOR SC OGDW DC - 1
N7N-36A
10° 5011 8° Pitch



6835m TEST GROUP (B)
HOLLAND AIR NEW MEXICO
BAT SCAT

CONTROL NO. 72-17
DATE 7 Dec 73
FREQUENCY 3500 TUE 2030
POLARIZATION 101 BISTATIC 30°
OPERATOR MR. J. C. BIRN
90° 1011 0° Pitch





5555A TEST GROUP 100J
HOLLOMAN AFB NEW MEXICO
EAT SCAT
CONTROL NO. 72-12
DATE 7 Dec 73 PWL 1334G
FREQUENCY 5550 TML 2035
POLARIZATION W RSTATIC 20
OPERATOR AB GCMW AS-1
30N-3AA
30° Roll
0° Pitch

CONTROL NO. 72-17
DATE 7 DEC 73 RUN 1033A
FREQUENCY 5500 TIME 2040
POLARIZATION VERTICAL 30°
OPERATOR BR Q C 10-1
804-34A
90° Roll 0° Pitch

[illegible]

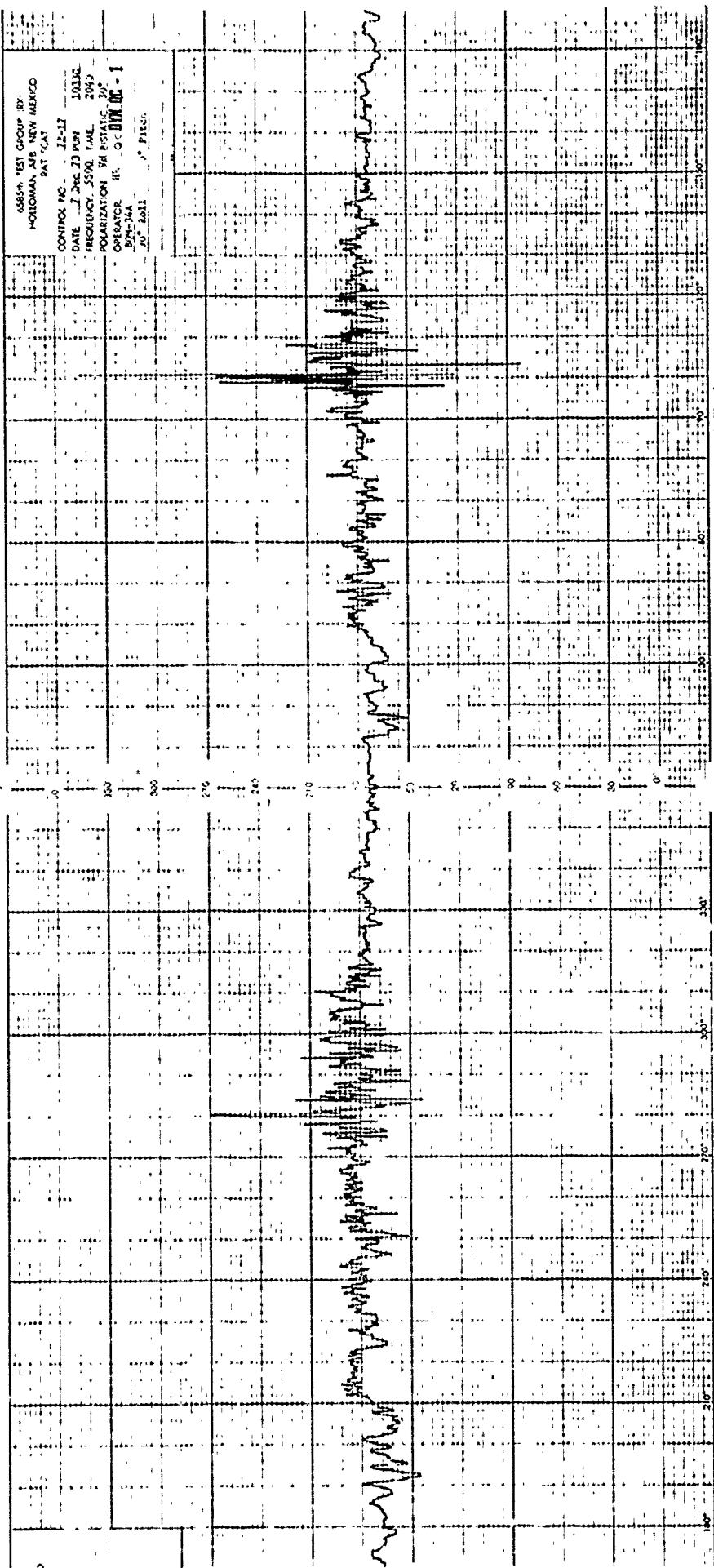
Page 30

VIEWING

20 VENTILY JOURNAL

6585th "EST GROUP" (RX)
HOLLoman, AFB NEW MEXICO
BAT "CAT"

CONTROL NO. 12-17
DATE 1 Dec 73 PUN 1013G
FREQUENCY 5500 KMH 2040
POLARIZATION VERTICAL 30°
OPERATOR HF QCC DYN DC-1
BY 34A
SU 2011 ° P1254



4585th TEST GROUP (BX)
HOLLOMAN AFB, NEW MEXICO
BAT SCAT

CONTROL NO. 72-17
DATE 7 Dec 71 PNL 1012A
FREQUENCY 5500 MHz 0125
POLARIZATION RH BEARING 30°
OPERATOR GS GCHN M-1
0° Az 10° Pitch

1000m
500m
0
-500m
-1000m
-1500m

100m
50m
0
-50m
-100m
-150m

10m
5m
0
-5m
-10m
-15m

1m
0.5m
0
-0.5m
-1m
-1.5m

0.1m
0.05m
0
-0.05m
-0.1m
-0.15m

0.01m
0.005m
0
-0.005m
-0.01m
-0.015m

0.001m
0.0005m
0
-0.0005m
-0.001m
-0.0015m

0.0001m
0.00005m
0
-0.00005m
-0.0001m
-0.00015m

0.00001m
0.000005m
0
-0.000005m
-0.00001m
-0.000015m

0.000001m
0.0000005m
0
-0.0000005m
-0.000001m
-0.0000015m

0.0000001m
0.00000005m
0
-0.00000005m
-0.0000001m
-0.00000015m

0.00000001m
0.000000005m
0
-0.000000005m
-0.00000001m
-0.000000015m

0.000000001m
0.0000000005m
0
-0.0000000005m
-0.000000001m
-0.0000000015m

0.0000000001m
0.00000000005m
0
-0.00000000005m
-0.0000000001m
-0.00000000015m

0.00000000001m
0.000000000005m
0
-0.000000000005m
-0.00000000001m
-0.000000000015m

0.000000000001m
0.0000000000005m
0
-0.0000000000005m
-0.000000000001m
-0.0000000000015m

0.0000000000001m
0.00000000000005m
0
-0.00000000000005m
-0.0000000000001m
-0.00000000000015m

0.00000000000001m
0.000000000000005m
0
-0.000000000000005m
-0.00000000000001m
-0.000000000000015m

0.000000000000001m
0.0000000000000005m
0
-0.0000000000000005m
-0.000000000000001m
-0.0000000000000015m

0.0000000000000001m
0.00000000000000005m
0
-0.00000000000000005m
-0.0000000000000001m
-0.00000000000000015m

0.00000000000000001m
0.000000000000000005m
0
-0.000000000000000005m
-0.00000000000000001m
-0.000000000000000015m

0.000000000000000001m
0.0000000000000000005m
0
-0.0000000000000000005m
-0.000000000000000001m
-0.0000000000000000015m

0.0000000000000000001m
0.00000000000000000005m
0
-0.00000000000000000005m
-0.0000000000000000001m
-0.00000000000000000015m

0.00000000000000000001m
0.000000000000000000005m
0
-0.000000000000000000005m
-0.00000000000000000001m
-0.000000000000000000015m

0.000000000000000000001m
0.0000000000000000000005m
0
-0.0000000000000000000005m
-0.000000000000000000001m
-0.0000000000000000000015m

0.0000000000000000000001m
0.00000000000000000000005m
0
-0.00000000000000000000005m
-0.0000000000000000000001m
-0.00000000000000000000015m

0.00000000000000000000001m
0.000000000000000000000005m
0
-0.000000000000000000000005m
-0.00000000000000000000001m
-0.000000000000000000000015m

0.000000000000000000000001m
0.0000000000000000000000005m
0
-0.0000000000000000000000005m
-0.000000000000000000000001m
-0.0000000000000000000000015m

0.0000000000000000000000001m
0.00000000000000000000000005m
0
-0.00000000000000000000000005m
-0.0000000000000000000000001m
-0.00000000000000000000000015m

0.00000000000000000000000001m
0.000000000000000000000000005m
0
-0.000000000000000000000000005m
-0.00000000000000000000000001m
-0.000000000000000000000000015m

0.000000000000000000000000001m
0.0000000000000000000000000005m
0
-0.0000000000000000000000000005m
-0.0000000000000000000000000001m
-0.00000000000000000000000000015m

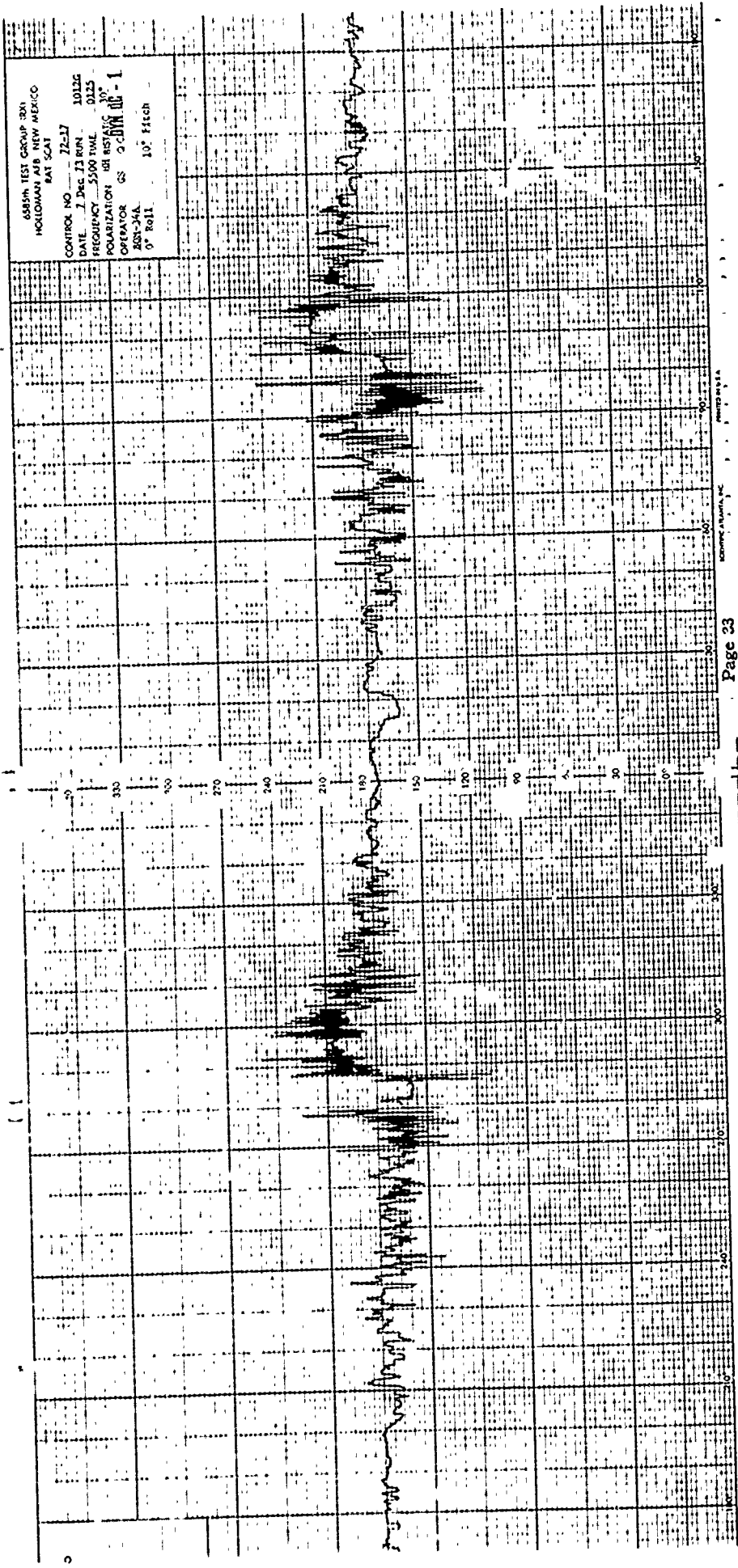
0.0000000000000000000000000001m
0.00000000000000000000000000005m
0
-0.00000000000000000000000000005m
-0.00000000000000000000000000001m
-0.000000000000000000000000000015m

0.00000000000000000000000000001m
0.000000000000000000000000000005m
0
-0.000000000000000000000000000005m
-0.000000000000000000000000000001m
-0.0000000000000000000000000000015m

0.000000000000000000000000000001m
0.0000000000000000000000000000005m
0
-0.0000000000000000000000000000005m
-0.0000000000000000000000000000001m
-0.00000000000000000000000000000015m

0.0000000000000000000000000000001m
0.00000000000000000000000000000005m
0
-0.00000000000000000000000000000005m
-0.00000000000000000000000000000001m
-0.000000000000000000000000000000015m

0.00000000000000000000000000000001m
0.000000000000000000000000000000005m
0
-0.000000000000000000000000000000005m
-0.000000000000000000000000000000001m
-0.0000000000000000000000000000000015m



ASST. TEST GROUP 321
HOLLAND AFB NEW MEXICO
BAT SCAT

CONTROL NO. 72-17 10126
DATE 1 DEC 73 RUN 0125
FREQUENCY 5500 MHz
POLARIZATION RH ELEV 10°
OPERATOR GS OCBW AB-1
RST-34A
0° Roll 10° Pitch

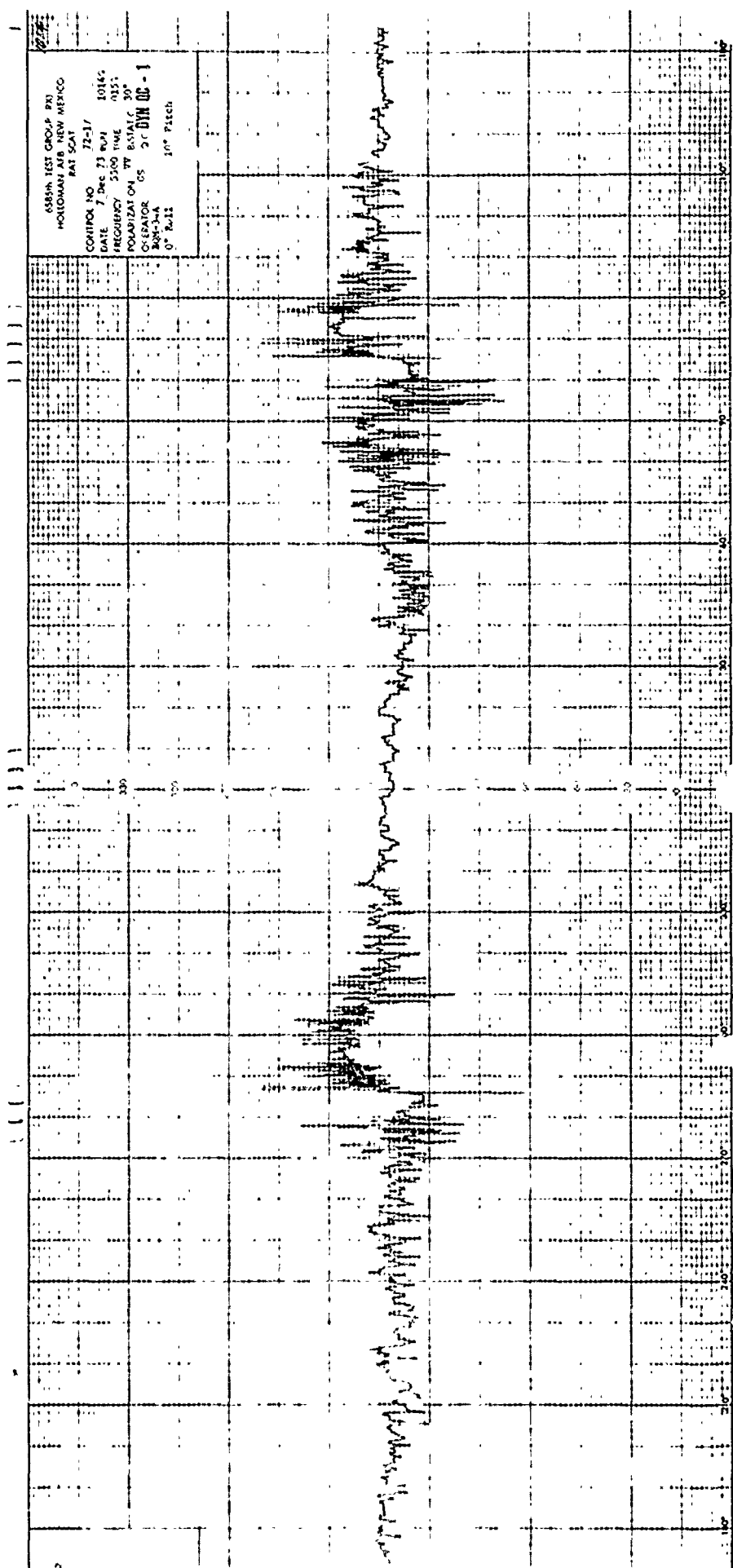
CONTROL NO. 72-17
DATE 7 Dec 73 RUN 1014A
FREQUENCY 5500 TIME 0150
POLARIZATION VV DISTANCE 30°
OPERATOR CS GWIN
BOM-34A
0° Roll 10° Pitch

2006-07-01

BIODENTIFICAZIONE A. RANFATA, S. R. C. PIRELLA G. S. S. A.

Page 34

688th TEST GROUP PN
HOLCOMB AFB NEW MEXICO
BAT SCAT
CONTROL NO 72-17 10145
DATE 7 Dec 73 R04
FREQUENCY 5300 MHz 0151
POLARIZATION TV B/VATC 30°
OPERATOR GS 3C DYN 02-1
204-3-44
0° Az 11 10° Pitch



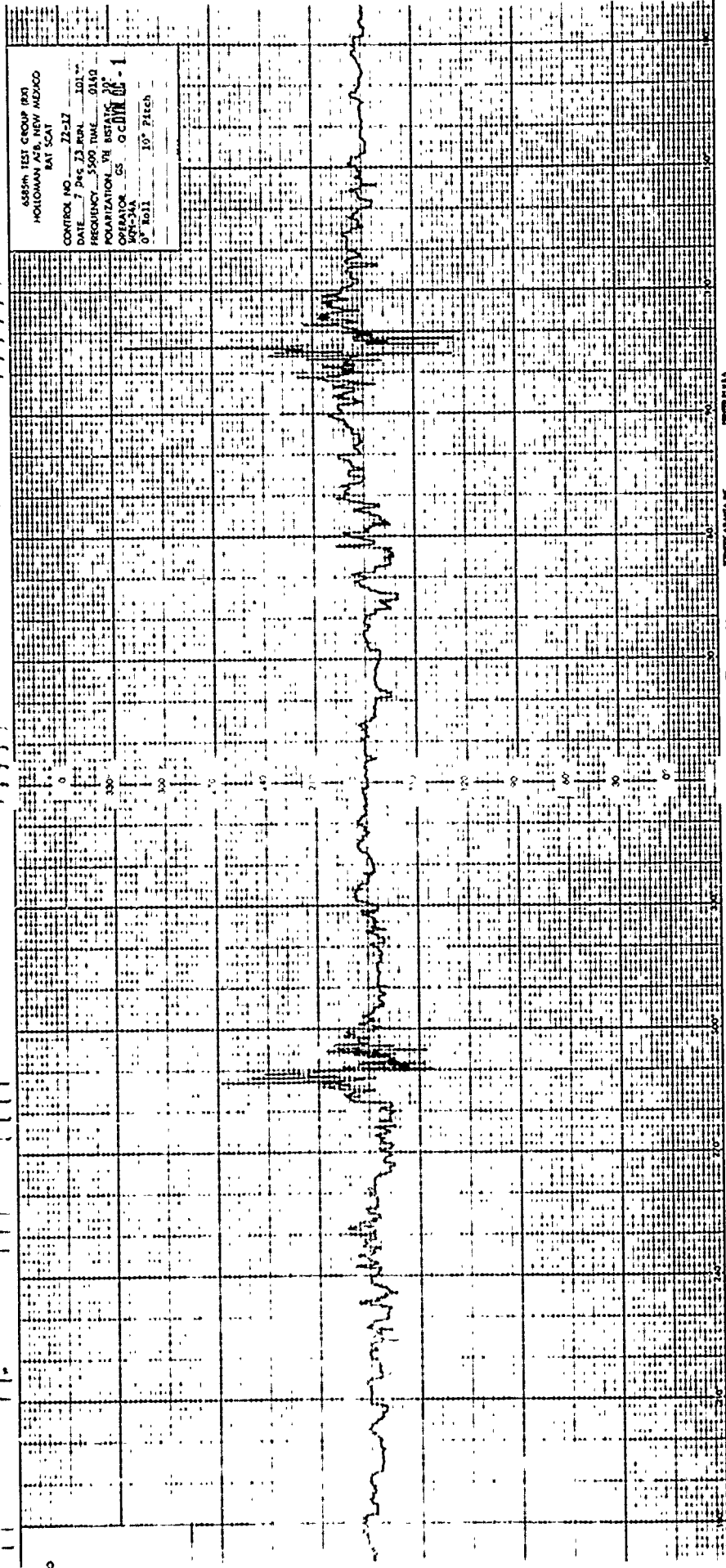
1385A TEST GROUP 1B0
MATCHMAN AIR NEW MEZ TO
BAT CAT

CONTROL NO 72-17 1013A
DATE 7 DEC 71 RUN 0150
FREQUENCY 5500 TIME 0150
POLARIZATION VTI B/VATIC 20°
OPERATOR CS G C DIA DE - 1
RSC-3AA
6" Roll 10" Pitch

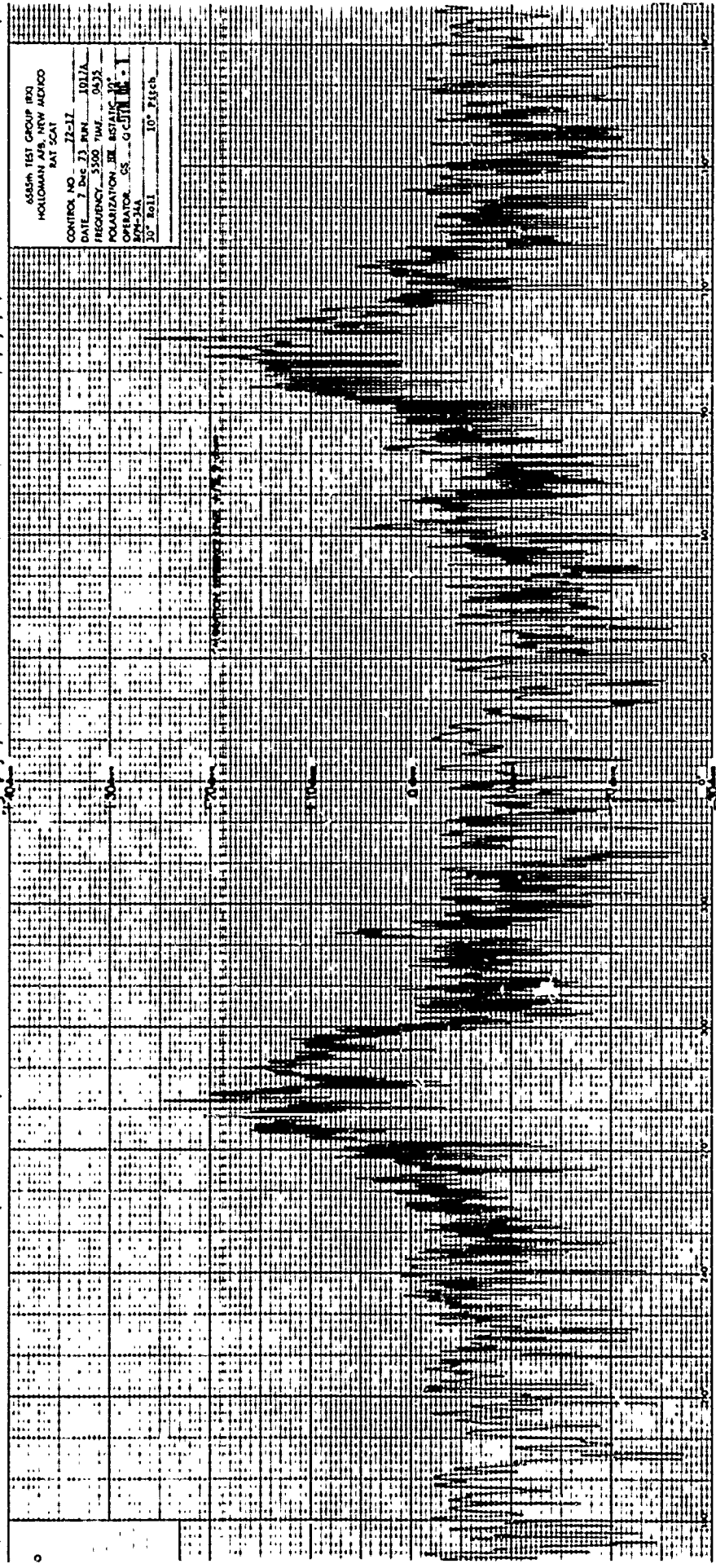
SUBMITTING SERVICE UNIT F-7E-5

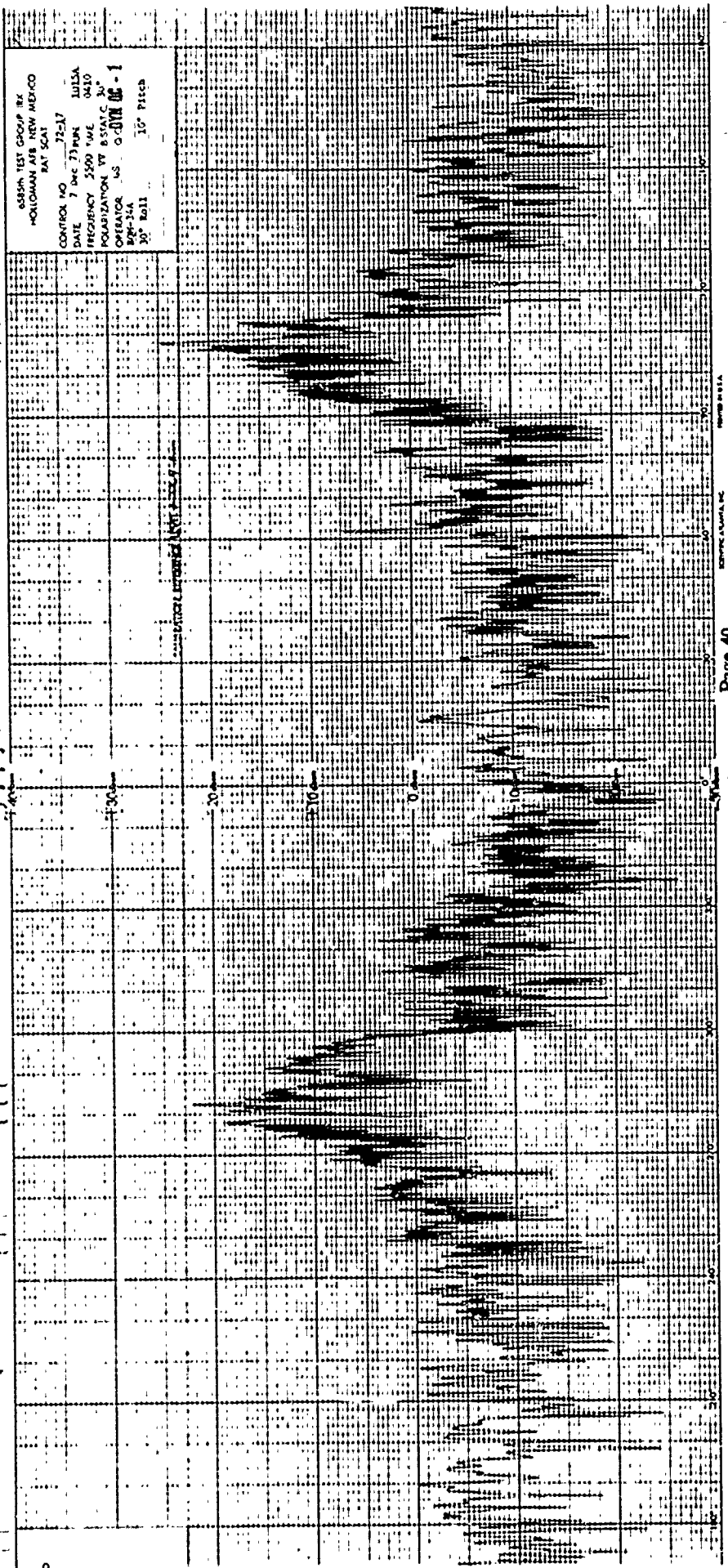
0 10 20 30 40 50 60 70 80 90 100

0 1 2 3 4 5 6 7 8 9 10

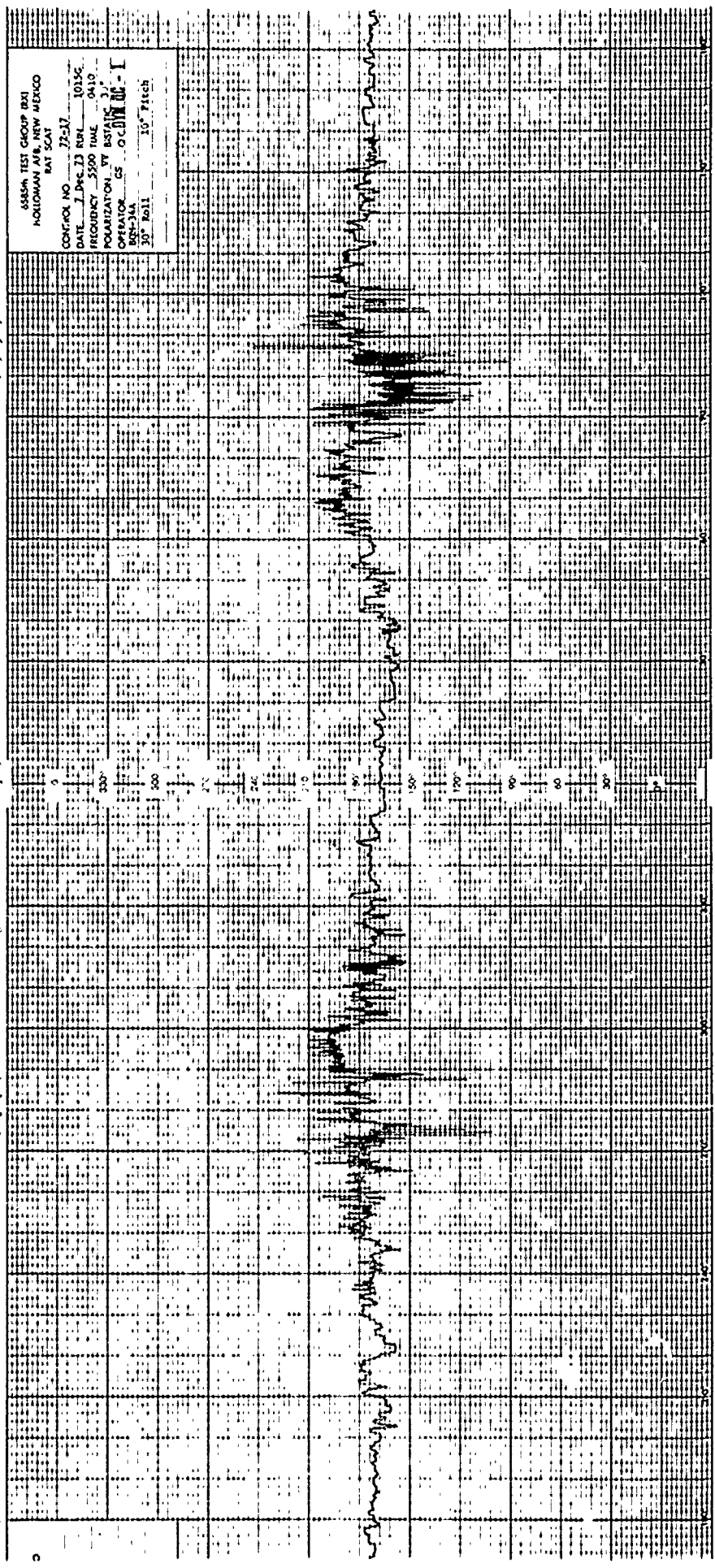


655PM TEST GROUP 100
 HOLLANDMAN AFB, NEW MEXICO
 MAY 541
 CONTROL NO. 72-17
 DATE 7 Dec 73 BY 1017A
 FREQUENCY 5500 MHz 0435
 POLARIZATION JBL 45000
 OPERATOR SS - GCHB
 10 15ch

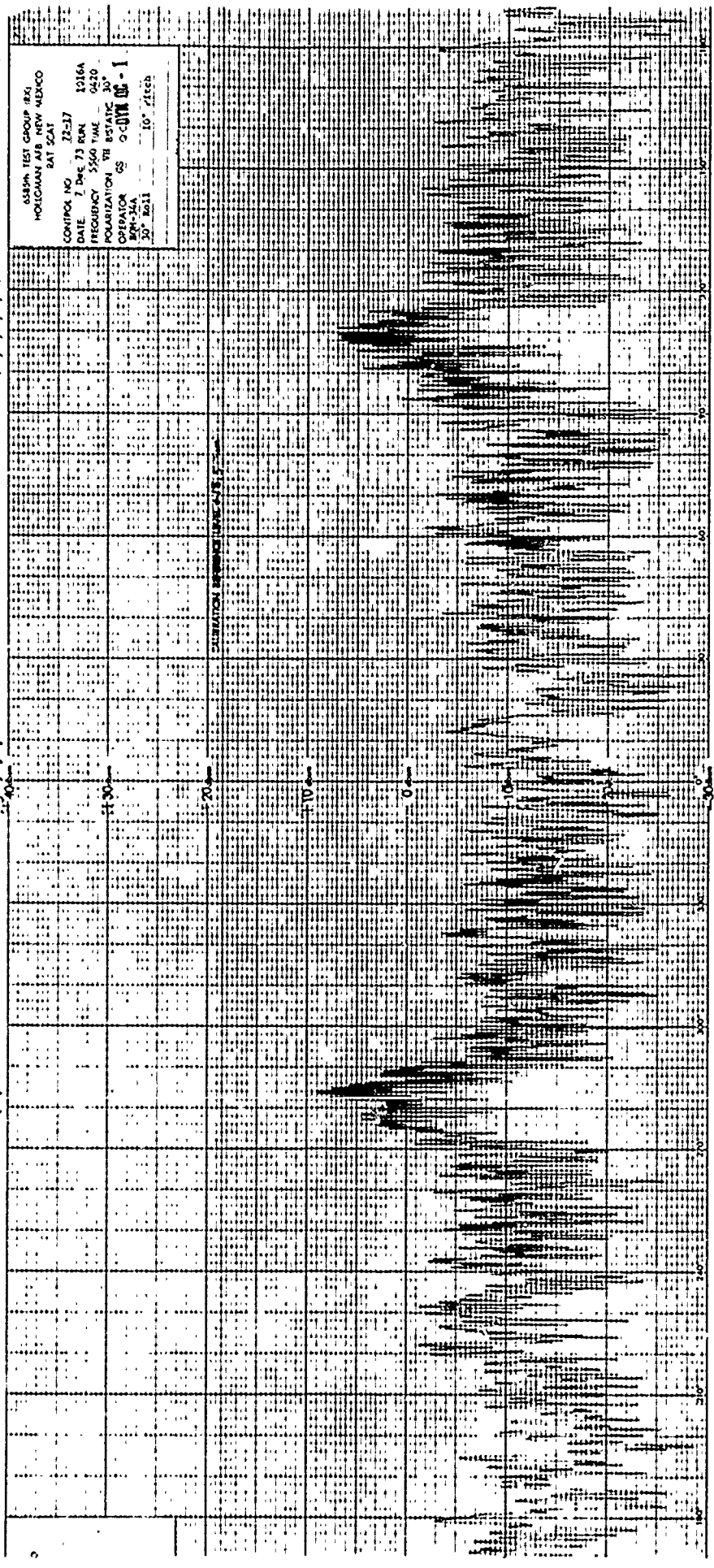




6553TH TEST GROUP TX
HOLLOMAN AIR NEW MEXICO
BAT SCAT
CONTROL NO 72-17
DATE 7 DEC 73 PWS
FREQUENCY 5500 MHz
MODULATION 100%
OPERATOR US
100 Roll 10° Pitch

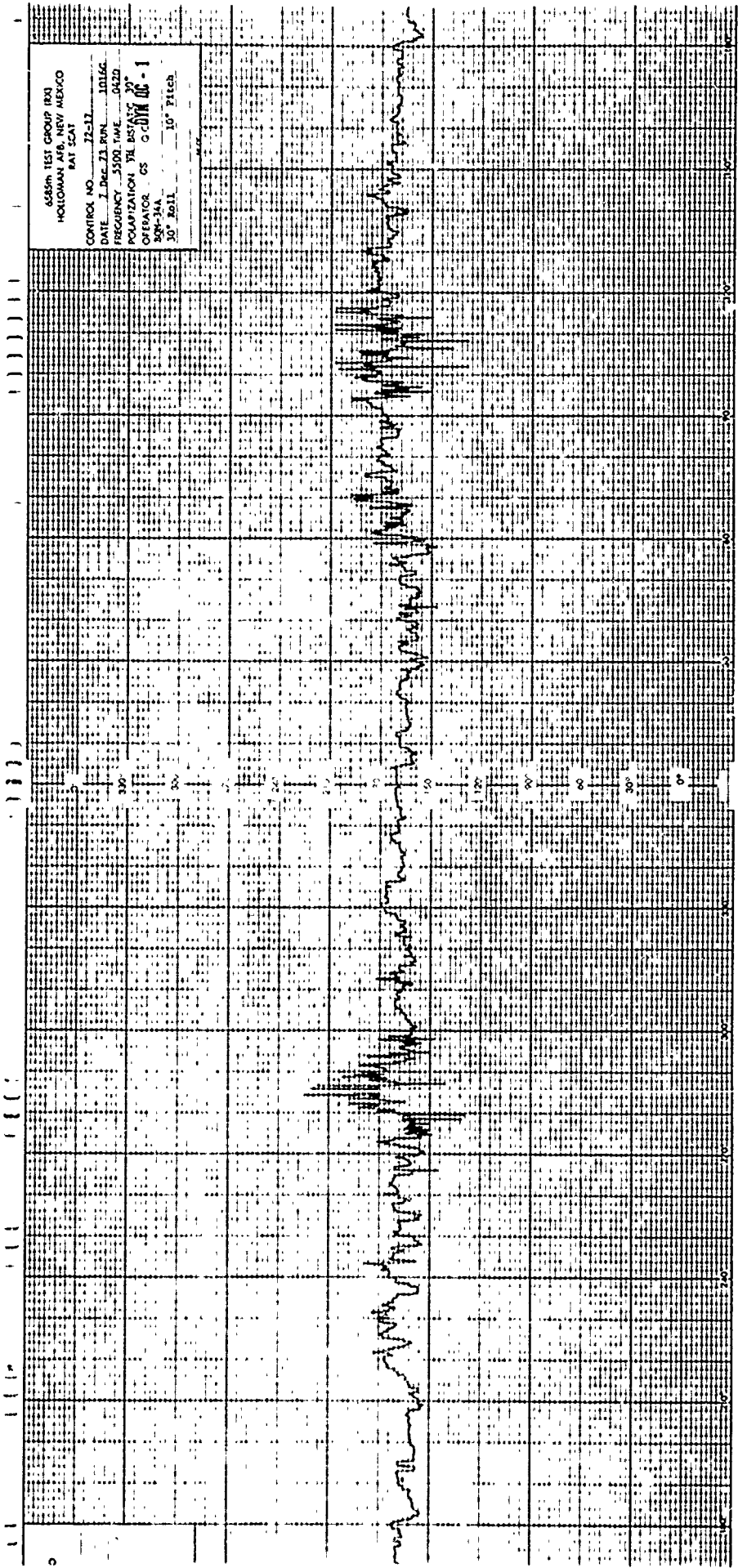


635PM TEST GROUP (BX)
 HOLCOMAN AFB NEW MEXICO
 RAT SCAT
 CONTROL NO. 72-37 1016A
 DATE 7 Dec 73 RUN 0420
 FREQUENCY 5500 TIME 0420
 POLARIZATION VIB. STATIC 30°
 OPERATOR GS 0-0000 05-1
 MPH-24A 10° Roll 10° Pitch

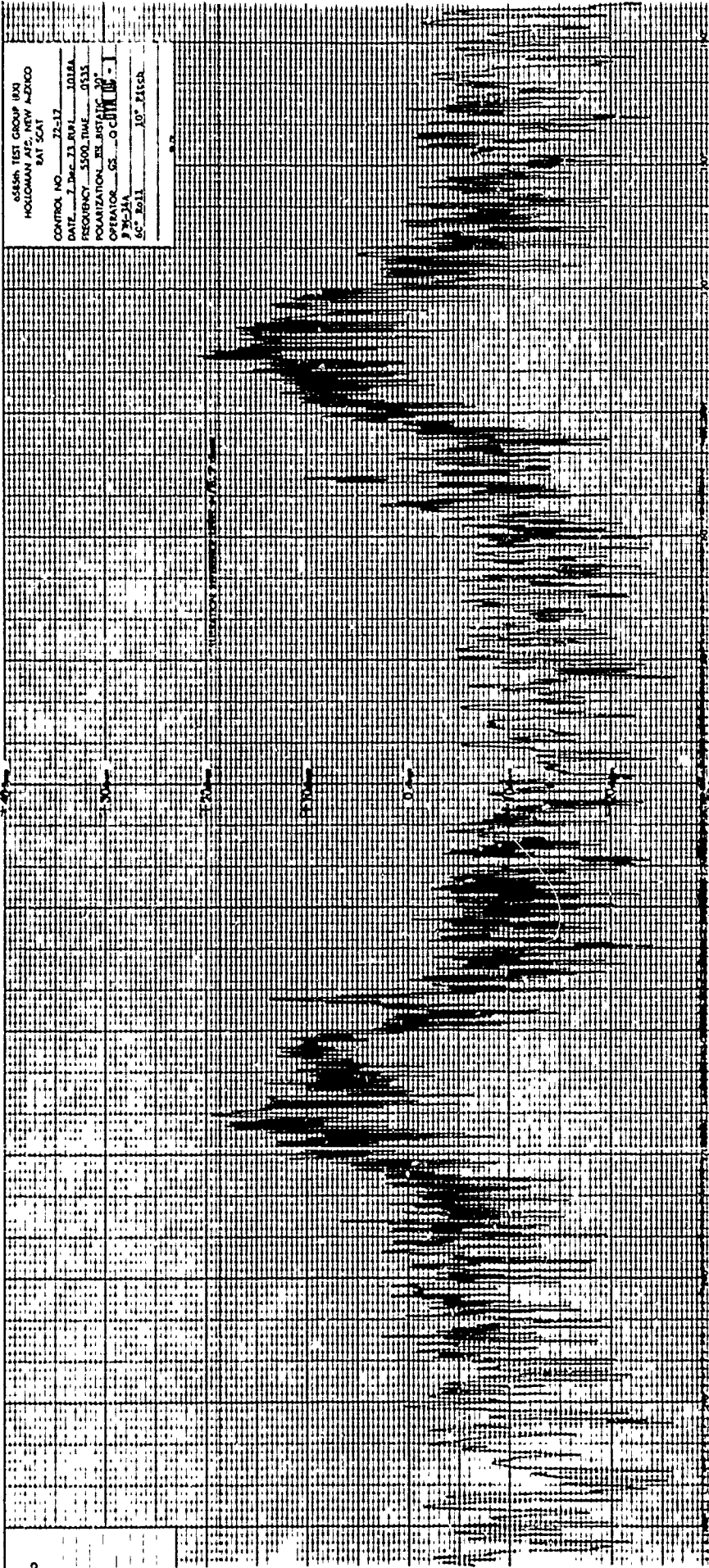


655th TEST GROUP (RX)
 HOLLOMAN AFB, NEW MEXICO
 FAT SCAT

CONTROL NO. 22-12
 DATE 2 Dec 71 RUN 1016G
 FREQUENCY 3500 MHz 0420
 POLARIZATION YL B7317 30°
 OPERATOR GS G. W. 1
 30' 30" 10° Pitch

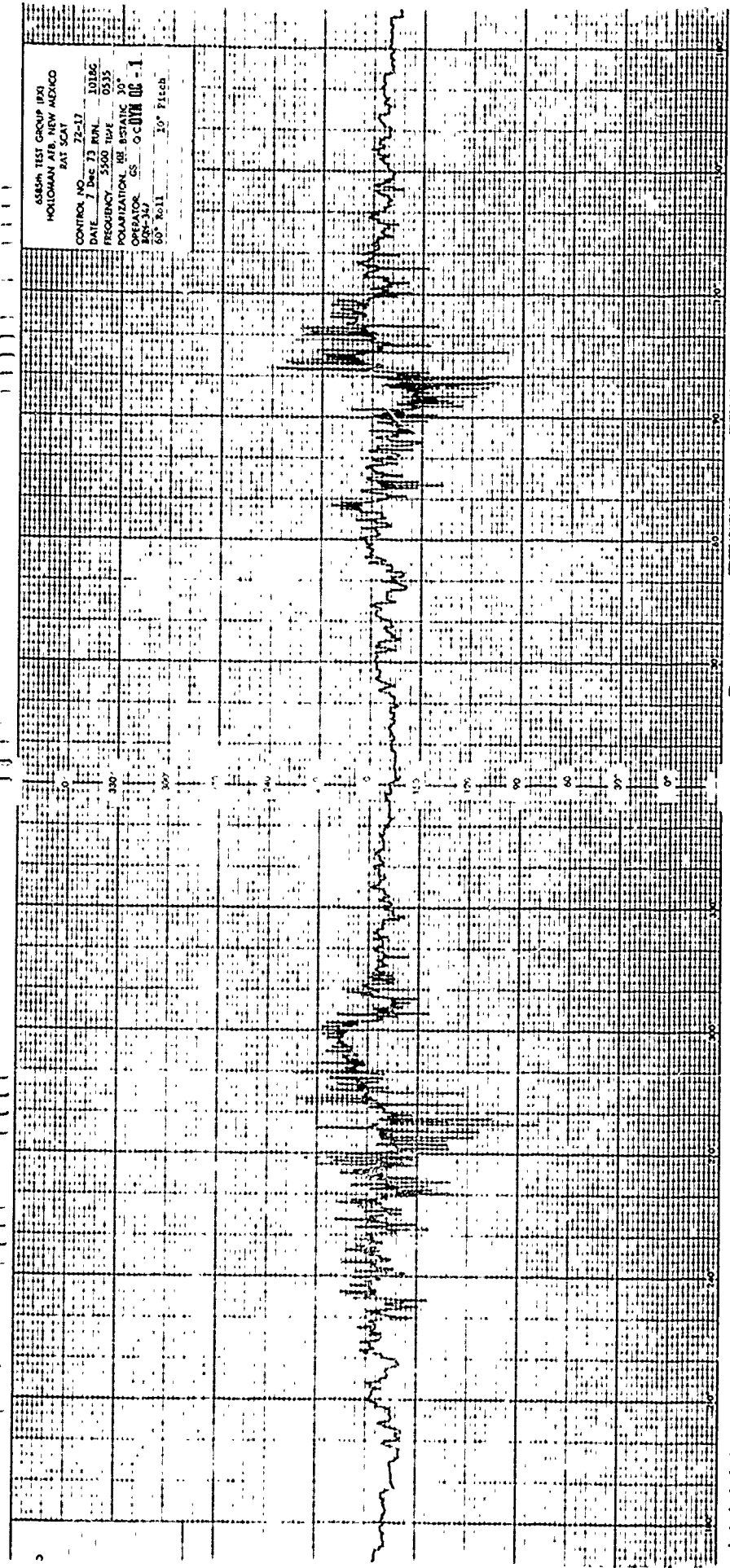


4585th TEST GROUP (R)
 HOLLAND AFB, TEXAS 75551
 BAT SCAT
 CONTROL NO. 72-17
 DATE 7 Dec 71 RVL 1011A
 FREQUENCY 5500 MHz 0533
 POLARIZATION RH 10°
 OPERATOR GS OC
 7 M-3A
 50° Roll 10° Pitch



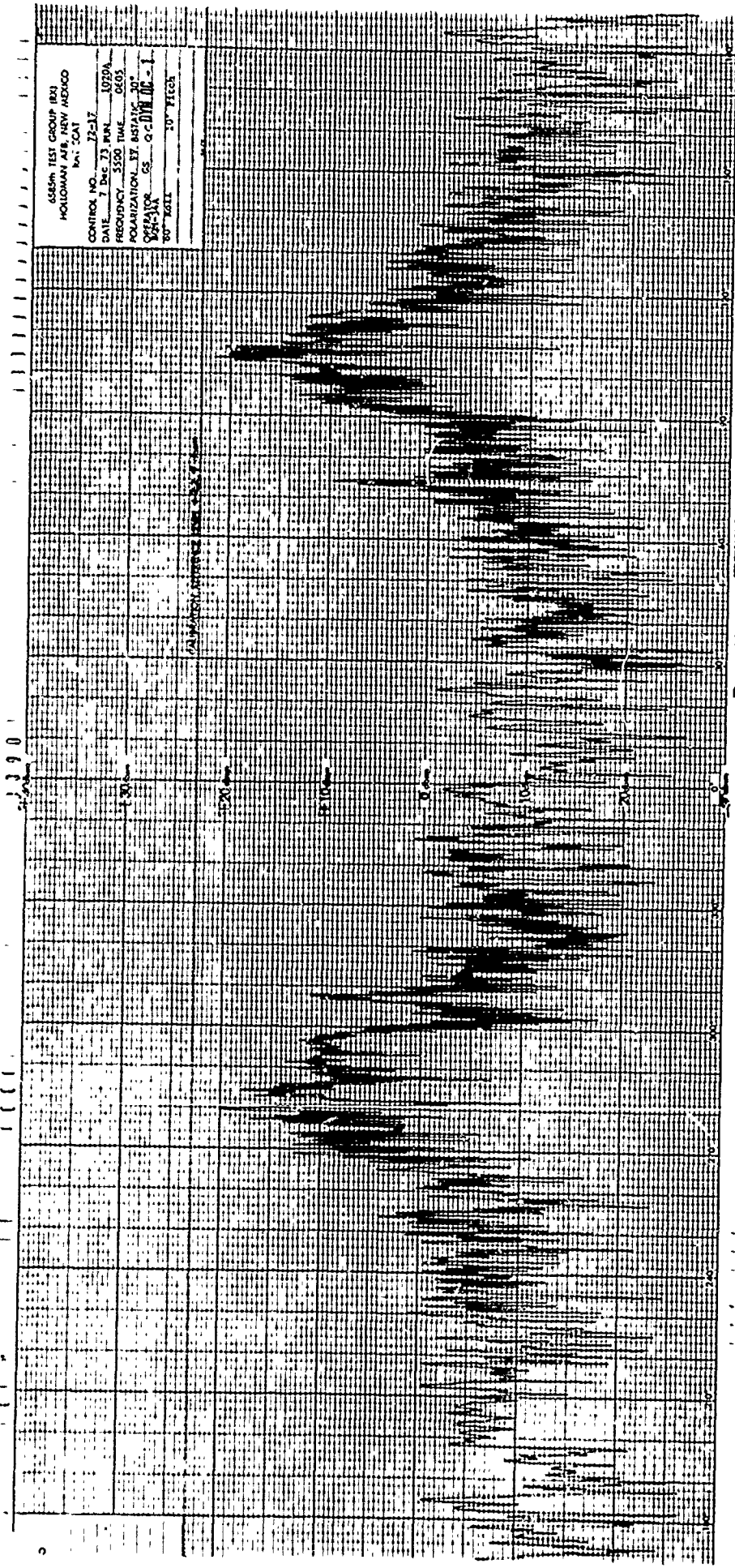
6885th TEST GROUP (IXI)
HOLLAMAN AFB, NEW MEXICO
EAT SCAT

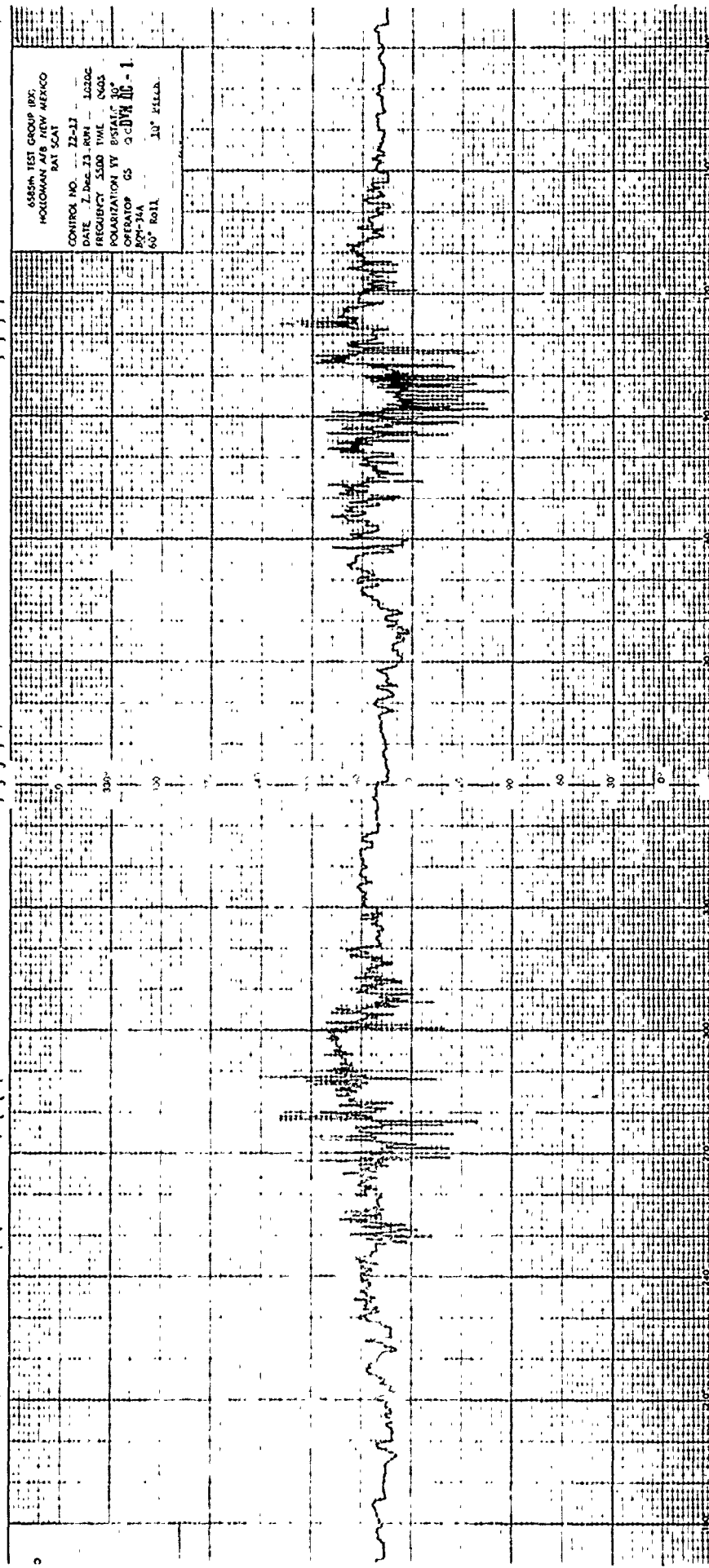
CONTROL NO.	72-17
DATE	7 Dec 73
FREQUENCY	5500 MHz
POLARIZATION	RE. STATIC 30°
OPERATOR	GS
809-347	OCUN 05-1
60° Roll	10° Pitch



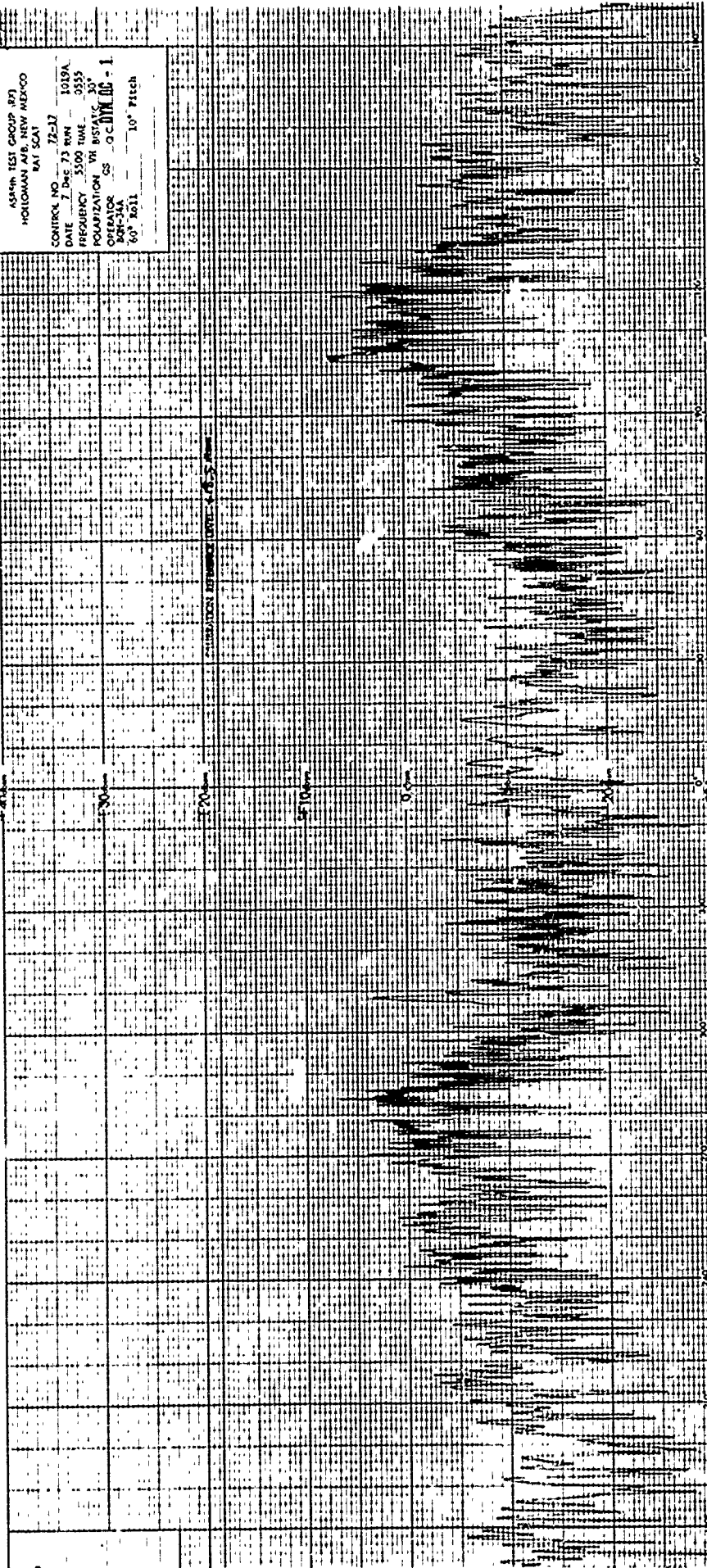
REMARKS: AT 1000 Hz, 10° Pitch, 60° Roll

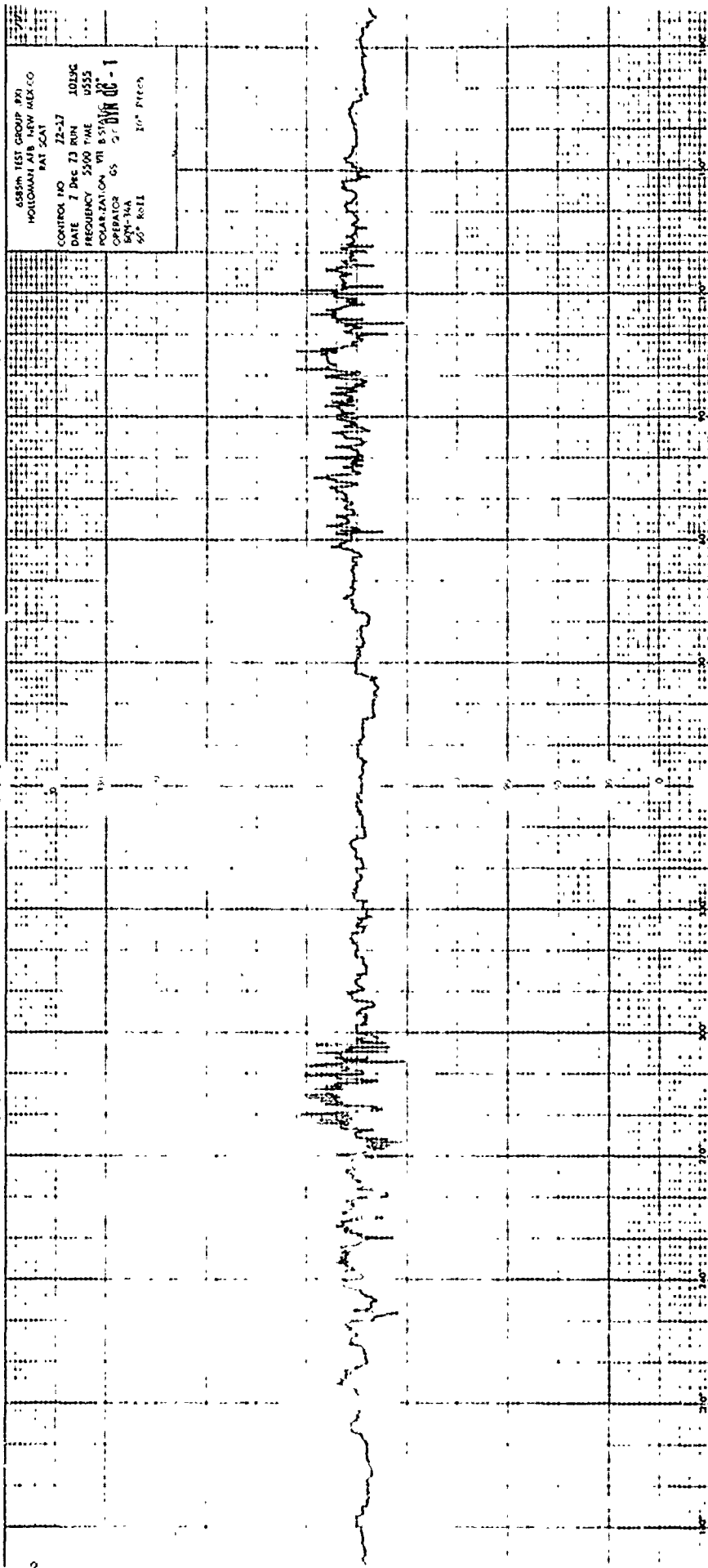
6556th TEST GROUP (BD)
 HOLLOMAN AFB, NEW MEXICO
 NAT. COAT
 CONTROL NO. 72-17
 DATE 7 Dec 73 RUN 1020A
 FREQUENCY 5500 MHz 0603
 POLARIZATION BY ANTENNA 30°
 OPERATOR GS OGDW 10-1
 80° GATE 10° FREQ



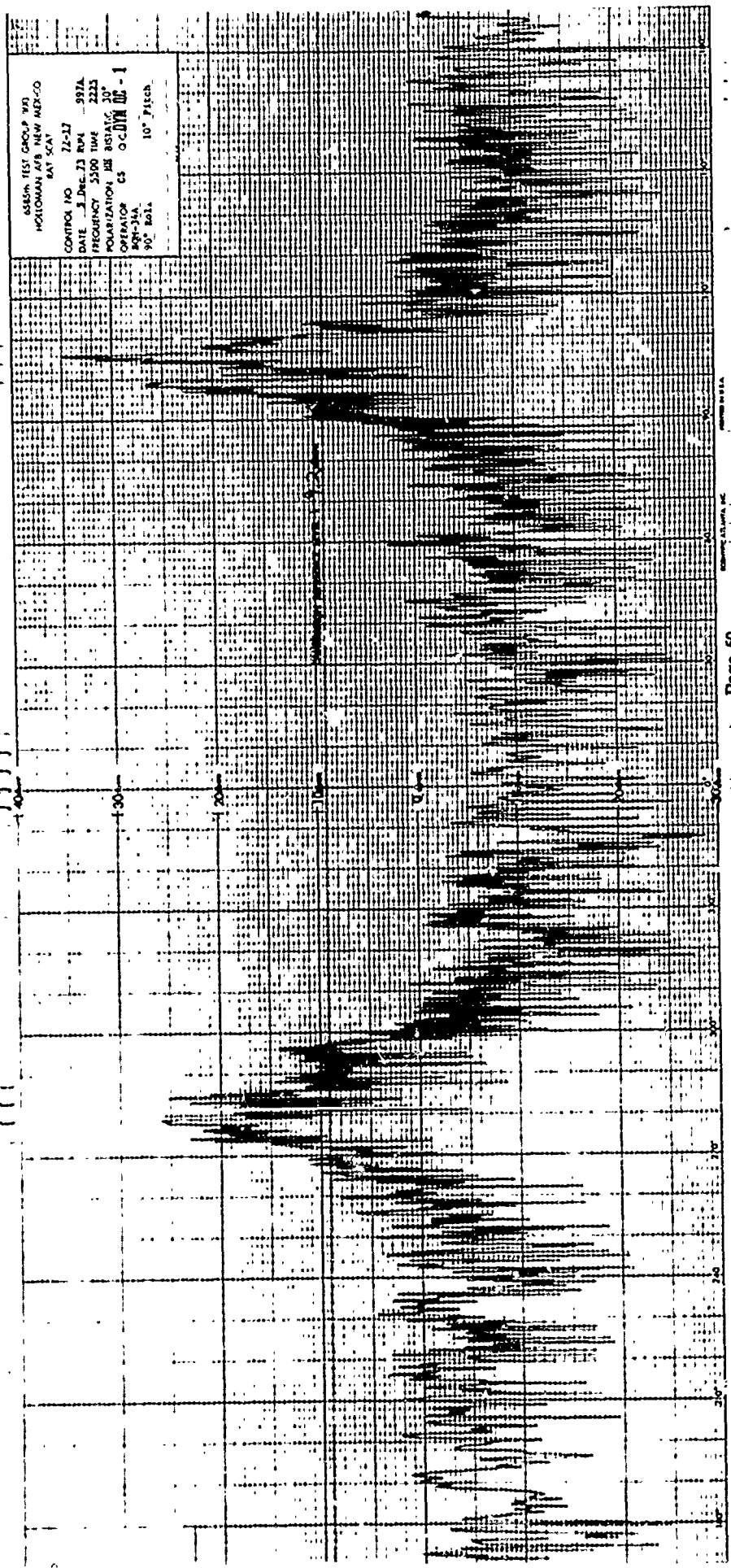


6585th TEST GROUP (B)
HOLLAND AFB NEW MEXICO
BAT SCAT
CONTROL NO. 22-13
DATE 7 Dec 73 RUN 1020C
FREQUENCY 5500 TIME 0403
POLARIZATION WY 0201
OPERATOR GS 0201
60° Roll 10° Pitch





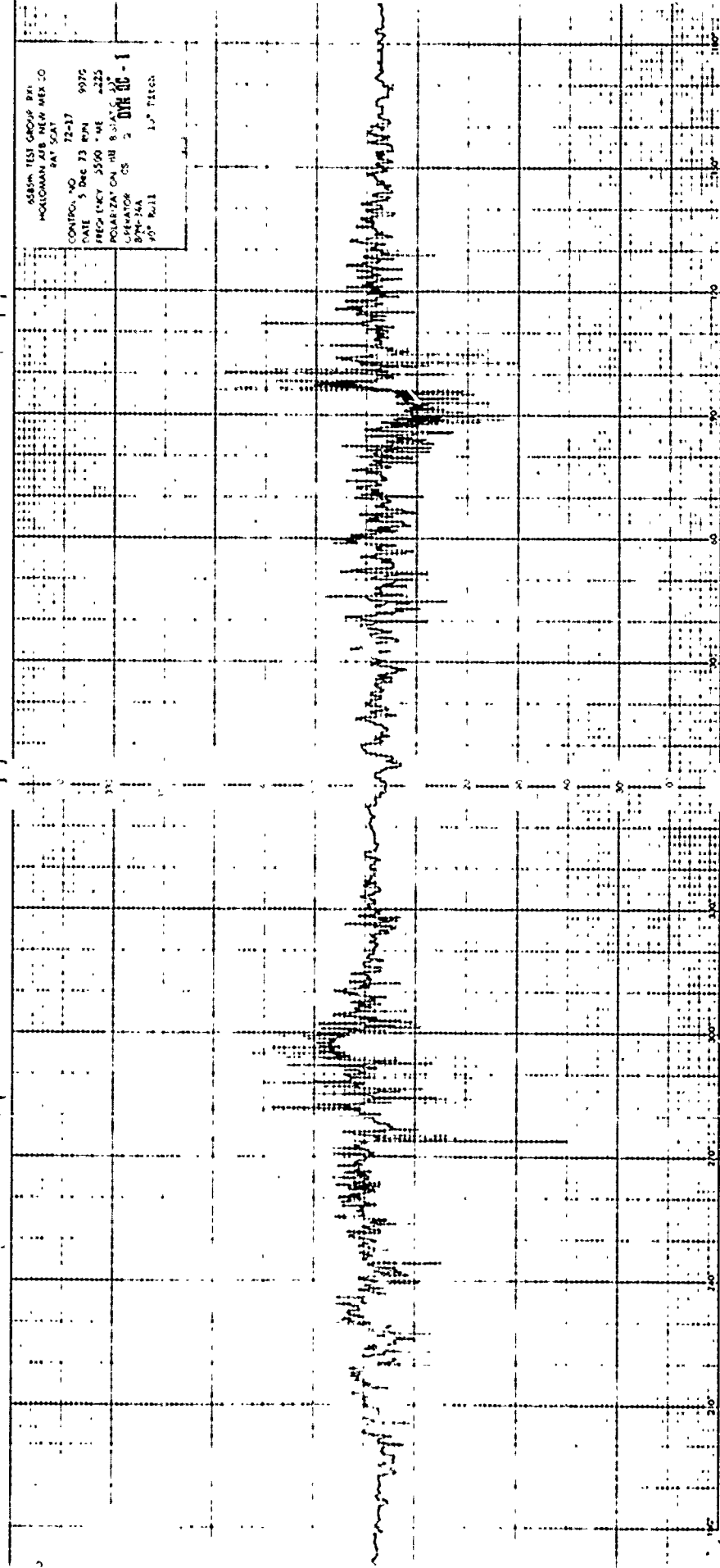
ASSON TEST GROUP 871
HOLCOMB AFB, NEW MEXICO
CONTROL NO. 22-27
DATE 7 DEC 73 RUN 1019C
FREQUENCY 5500 FINE 15355
POLARIZATION VTI 8.5
OPERATOR GS 57
BQM-16A
60° Roll 10° Pitch

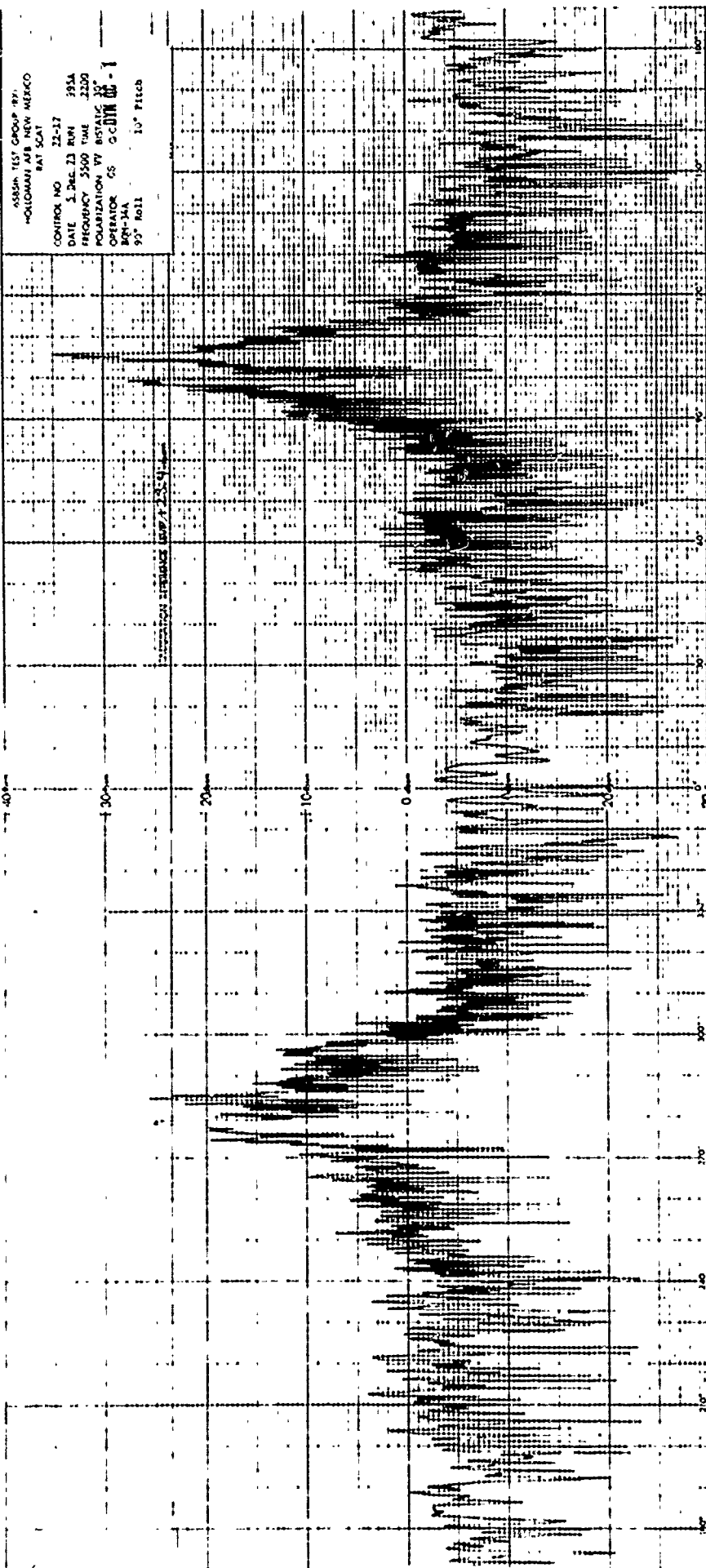


635th TEST GROUP W/3
HOLCOMB AFB NEW MEX-00
BAT SCAN

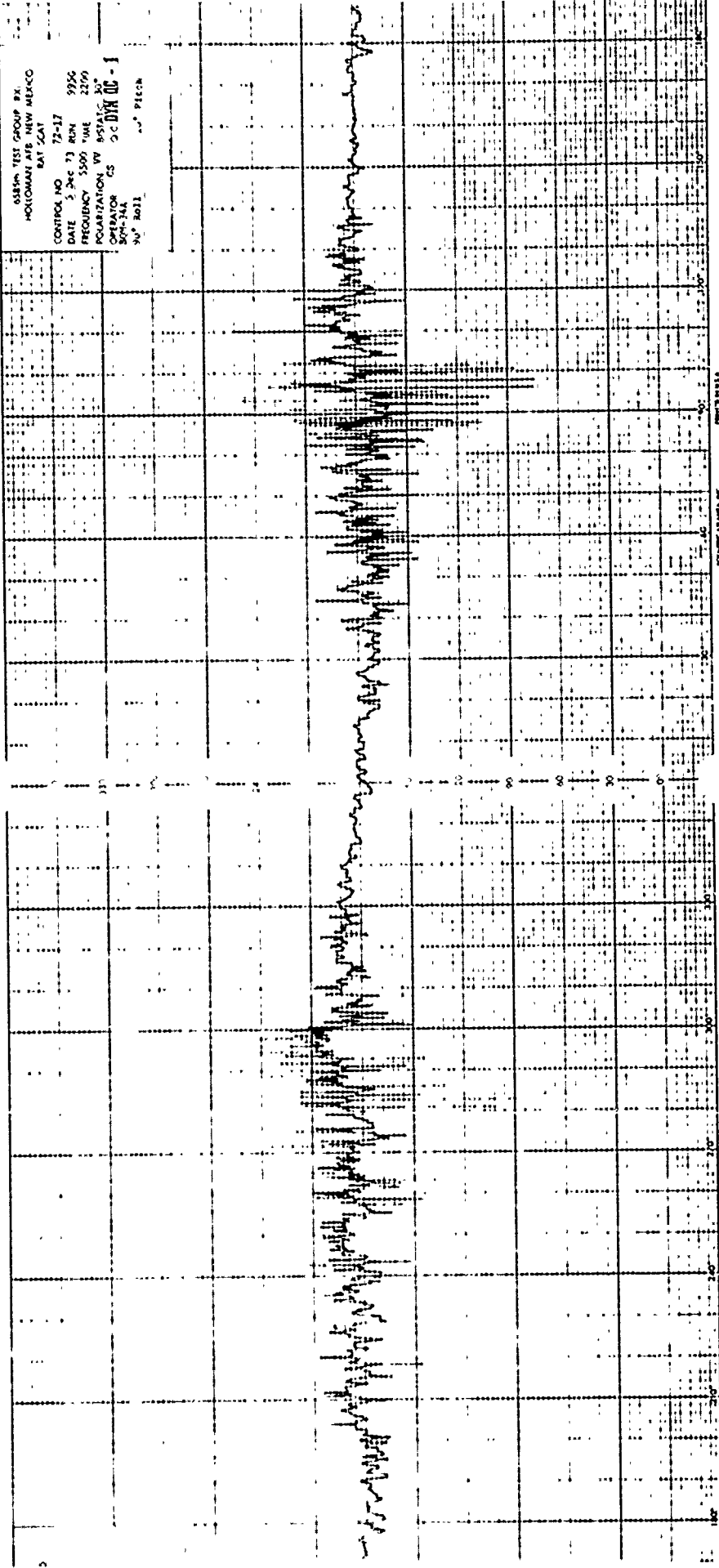
CONTROL NO 72-17
DATE 3 Dec 73 RPA - 597A
FREQUENCY 5500 TWE 2225
POLARIZATION JRE BSLALC 30°
OPERATOR CS OGDW DE - 1
40°-3A
90° Bat
10° Pitch

ASBIA TEST GROUP B1
 HOLCOMAN AFB NEW MEX CO
 DAY 5/24
 CONTROL NO 72-17
 DATE 5 Dec 73
 TIME 1407 2500 -45 225
 POLARIZATION 0.00
 OPERATOR CS 2
 87-1A
 45-1011
 1.0 Ticks





658th TEST GROUP BK
 HORTONMAN AFB NEW MEXICO
 DAT 5047
 CONTROL NO 72-17
 DATE 5 Dec 73 RUN 9956
 FREQUENCY 5500 MHz 2279
 POLARIZATION W 8-STAT 30°
 OPERATOR CS 00 DYN CC - 1
 80M-31A
 90° Roll
 10° Pitch

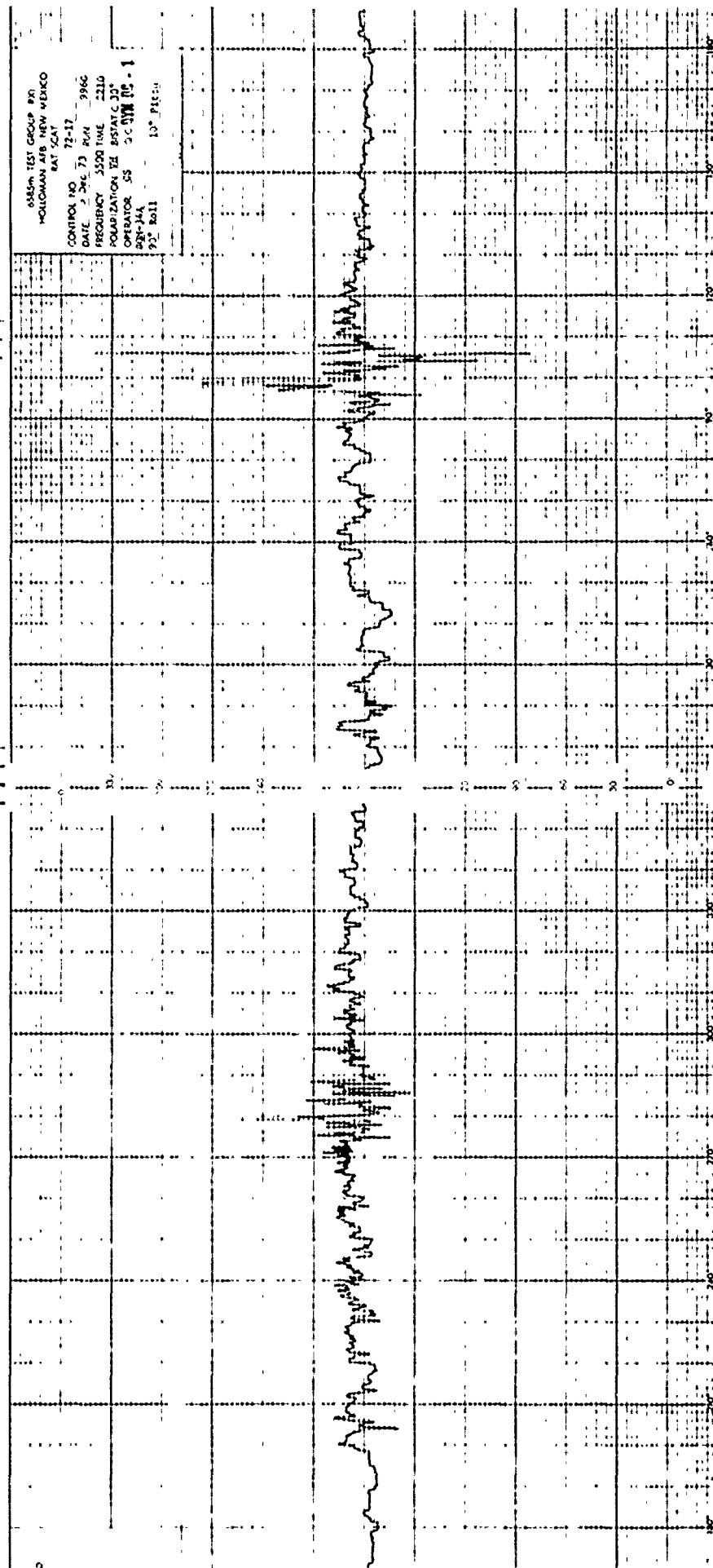


CONTROL NO. 72-17
DATE 5 DEC 73 RUN 396A
FREQUENCY 5500 TWE 2210
POLARIZATION TH 85 STATIC 30
OPERATOR CS OCH
BOM-34A
90° Mc11 10° Pitch

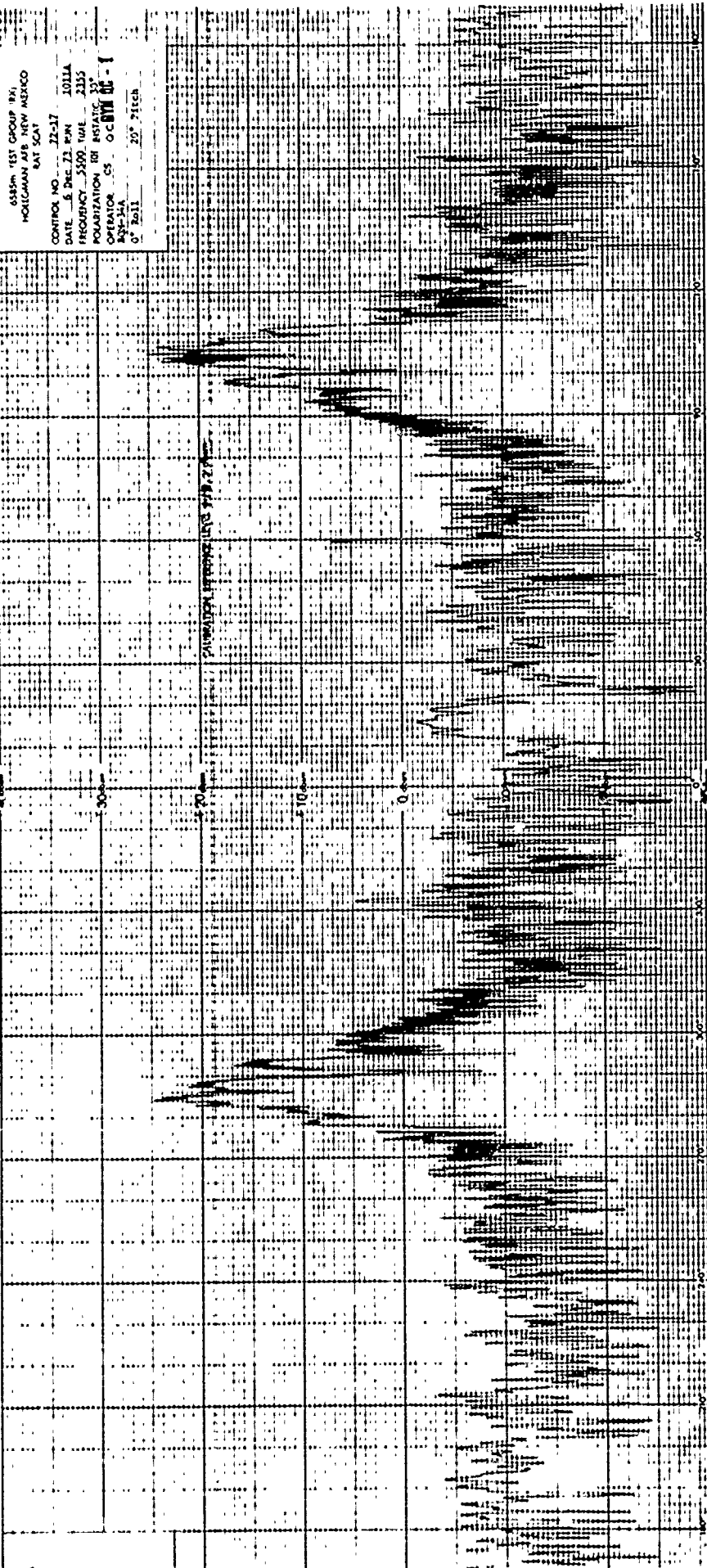
[illegible]

Page 54

635PM TEST GROUP P-1
HOLLOMAN AFB NEW MEXICO
BAT SCAT
CONTROL NO. 72-17
DATE 2 Dec 73 P-1 3966
FREQUENCY 3500 TONE 2210
MODULATION 100 HZ
OPERATOR SS SC 511110 - 1
28-144
92 Roll 13 P-1



6585th TEST GROUP (B)
 HOLLAMAN AFB NEW MEXICO
 SAT SCAT
 CONTROL NO. 22-17
 DATE 8 DEC 73 PM 1011A
 FREQUENCY 5592 MHz 2355
 POLARIZATION OF INSTANT
 OPERATOR CS OCT 81
 APP-5A
 0° Roll 20° Pitch



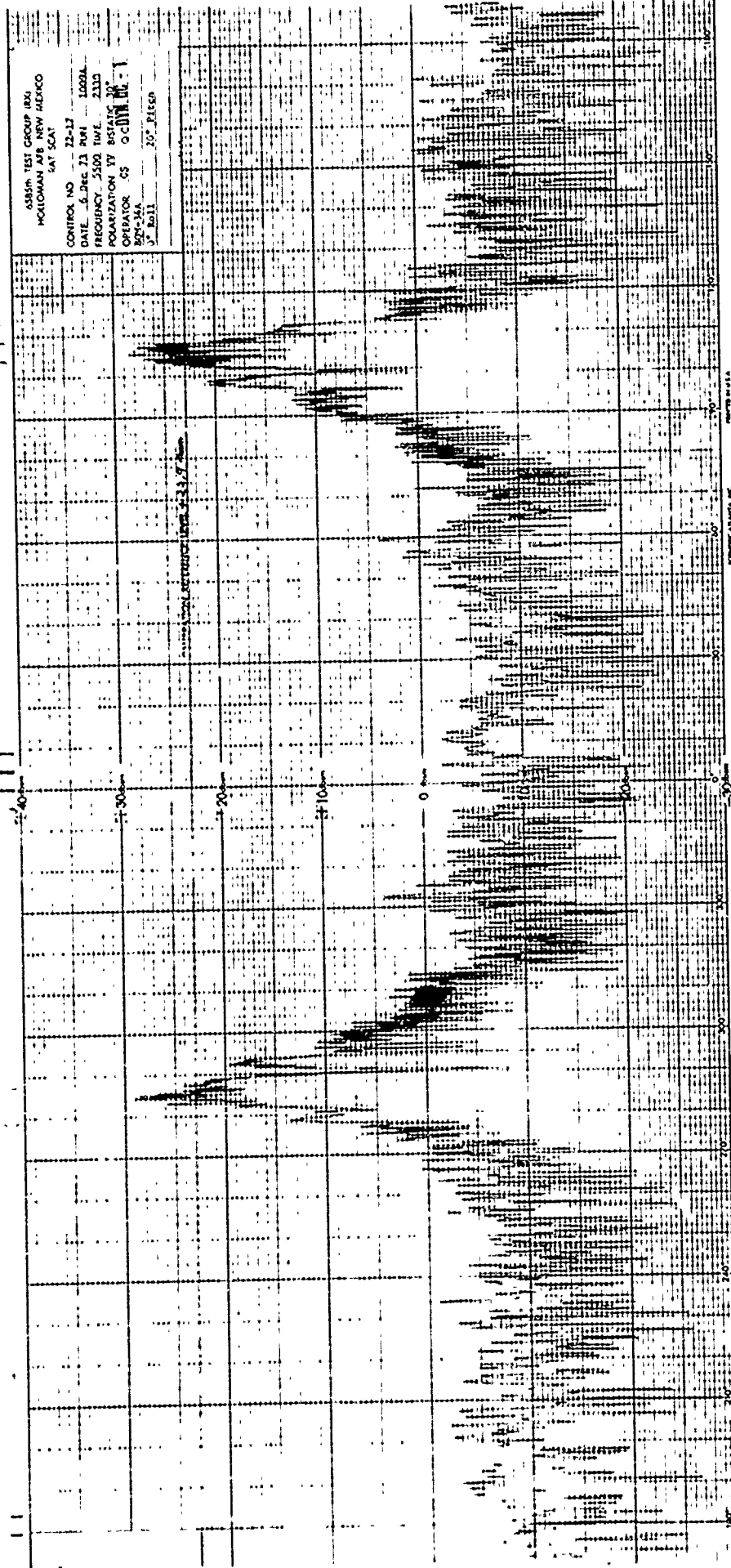
SCATTERING PLASMA, SEC

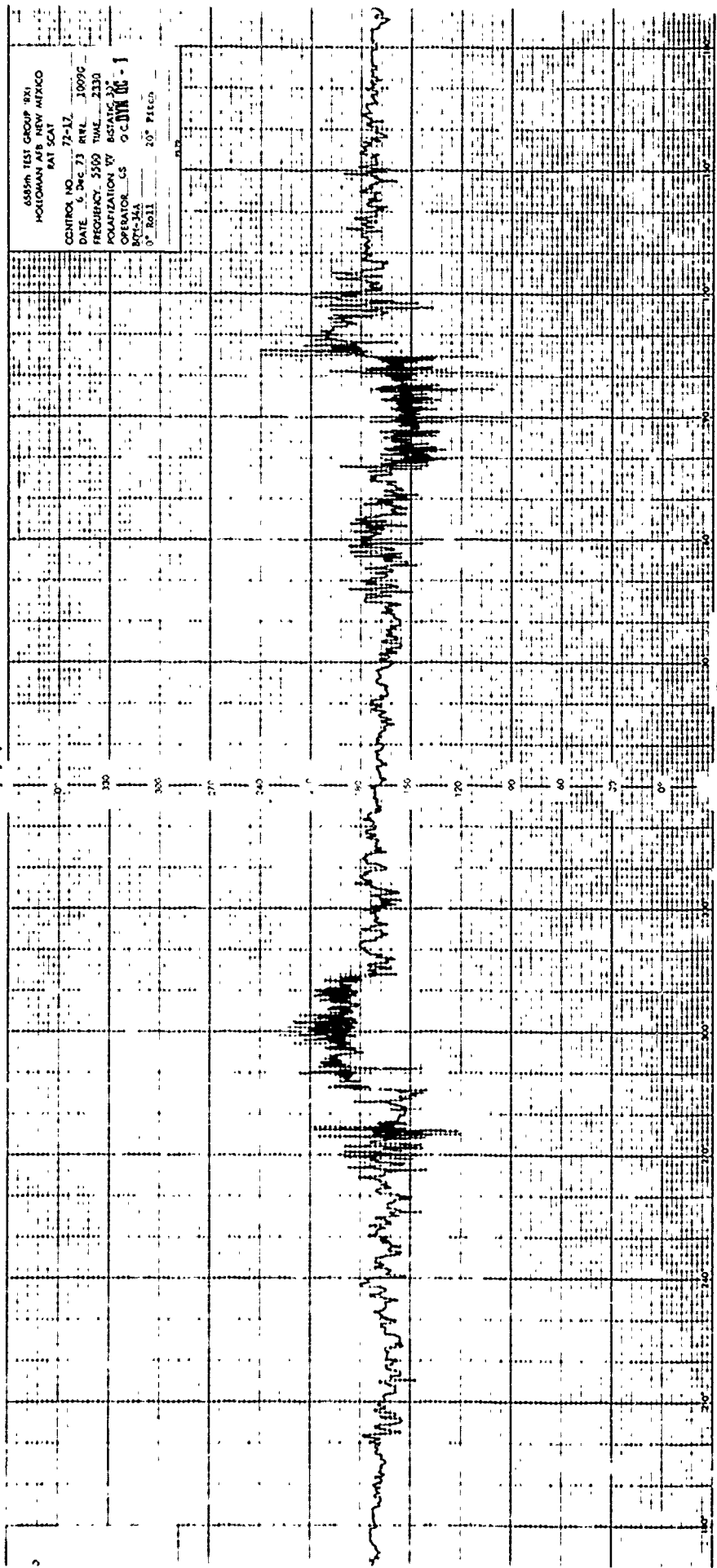
ASSTA TEST GROUP (RT)
HOLLOMAN AIR NEW MEXICO
PAT SCAT

CONTROL NO 72-17
DATE 12ME/73 PUN 1211G
FREQUENCY 3500 TIAL 2335
POLARIZATION JIM BRYAN
OPERATOR CS O CATH 110 - 1
SFC-114
0 Roll 10° PITCH

0 20 40 60 80 100 120 140 160 180 200 220 240 260 280 300

0 10 20 30 40 50 60 70 80 90 100



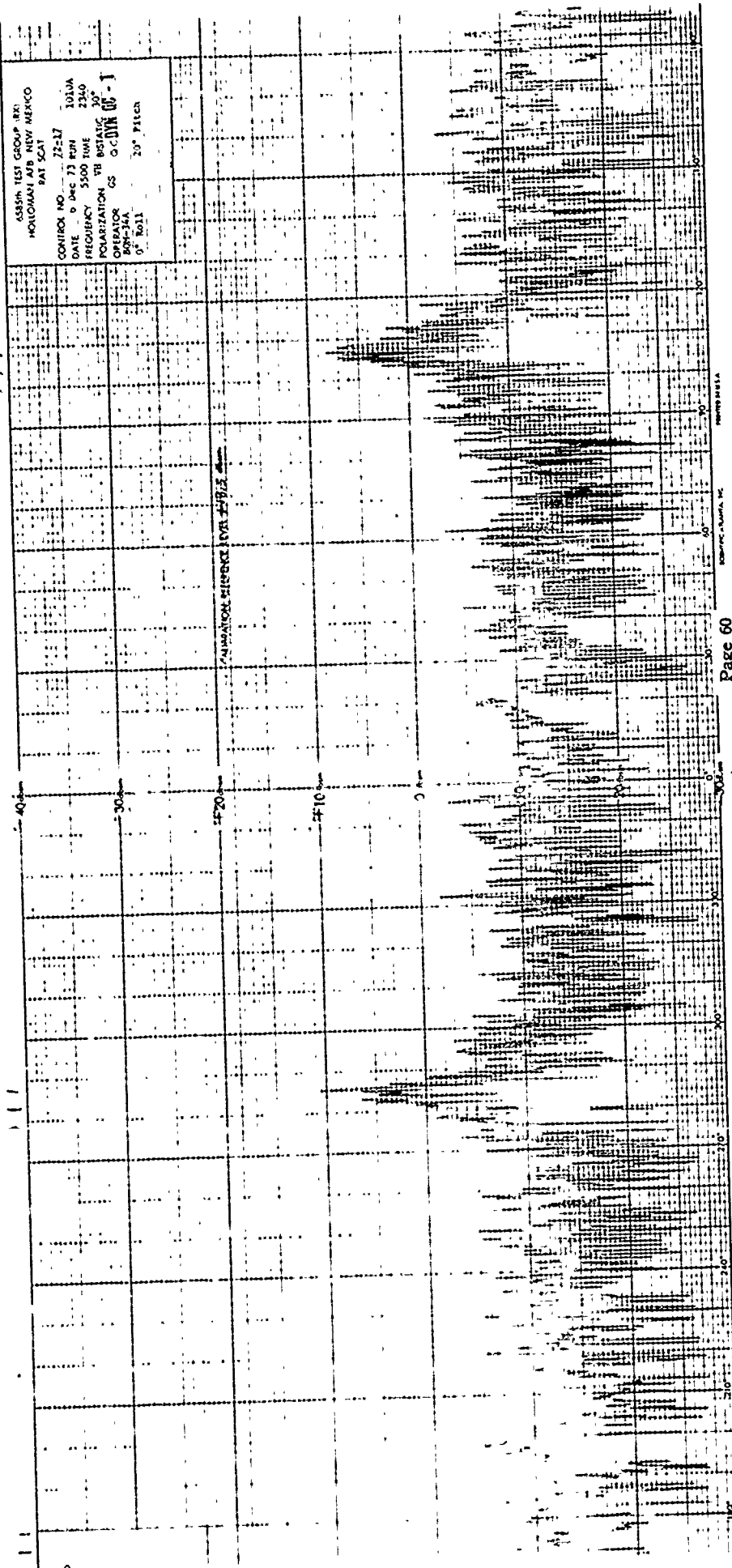


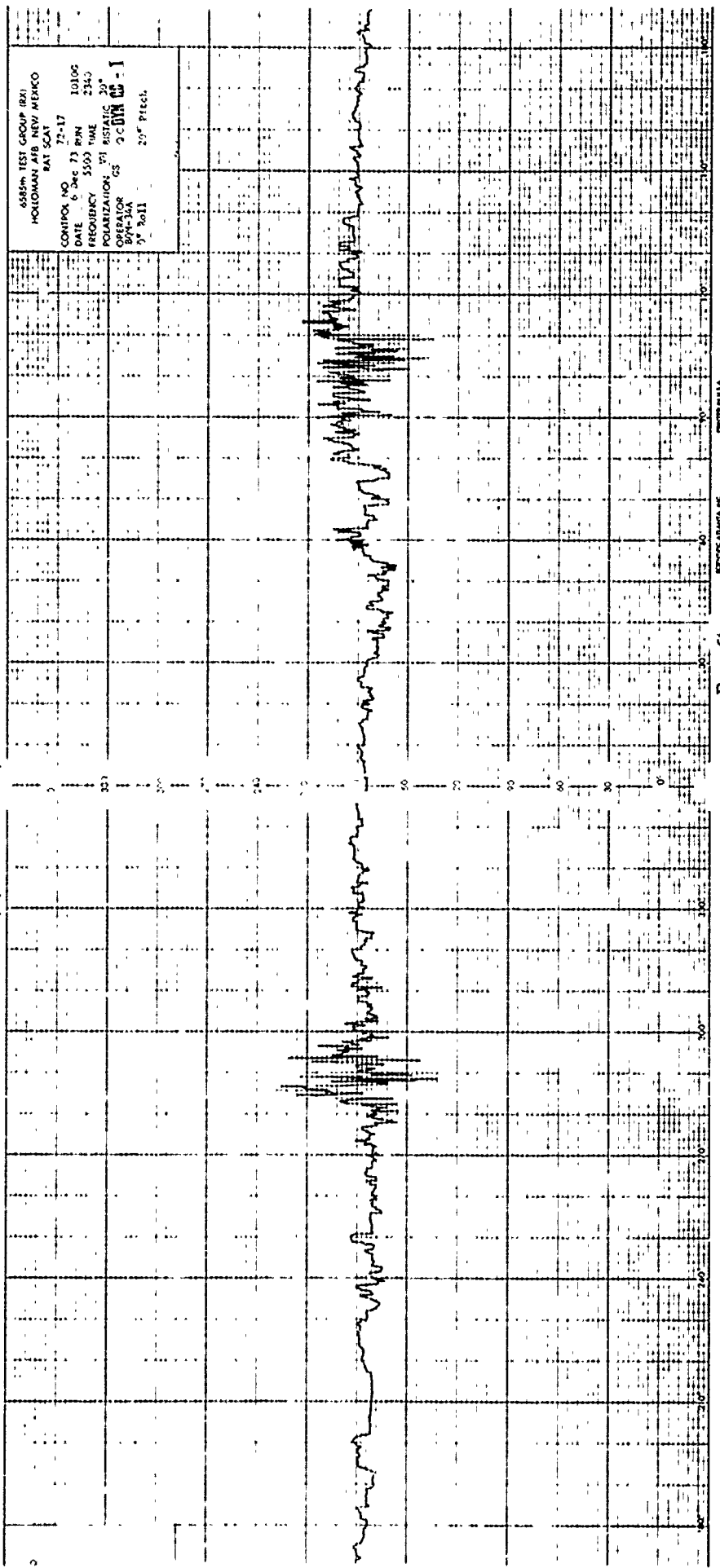
ASSAULT TEST GROUP DIV.
HOLCOMB AIR MOB. ATTCO
BAT SEAT

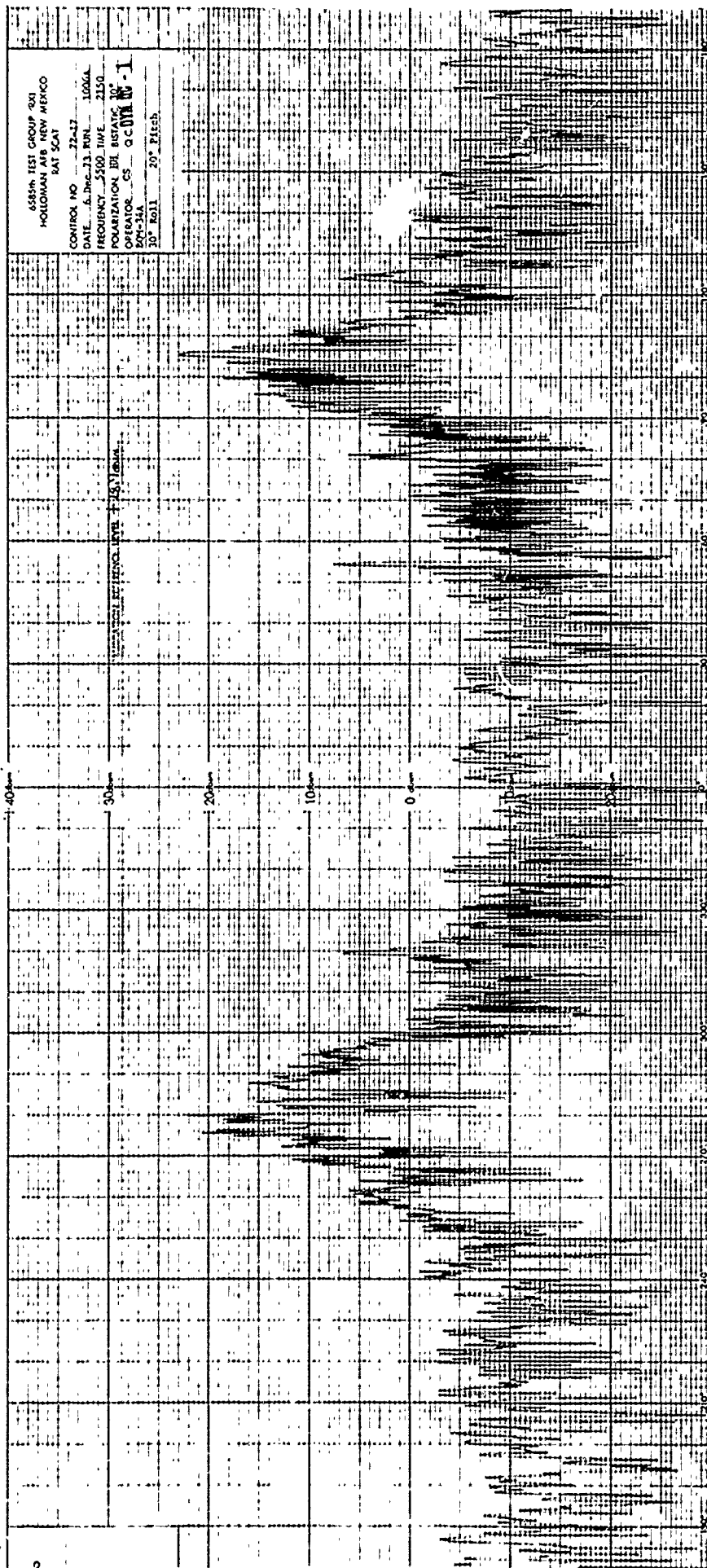
CONTROL NO. 72-12
DATE 6 DEC 73 RFL 1009G
FREQUENCY 5500 TUNE 2330
POLARIZATION W BUSTIC 30°
OPERATOR GS OGDH 08-1
BQC-34A
0° Roll 20° Pitch

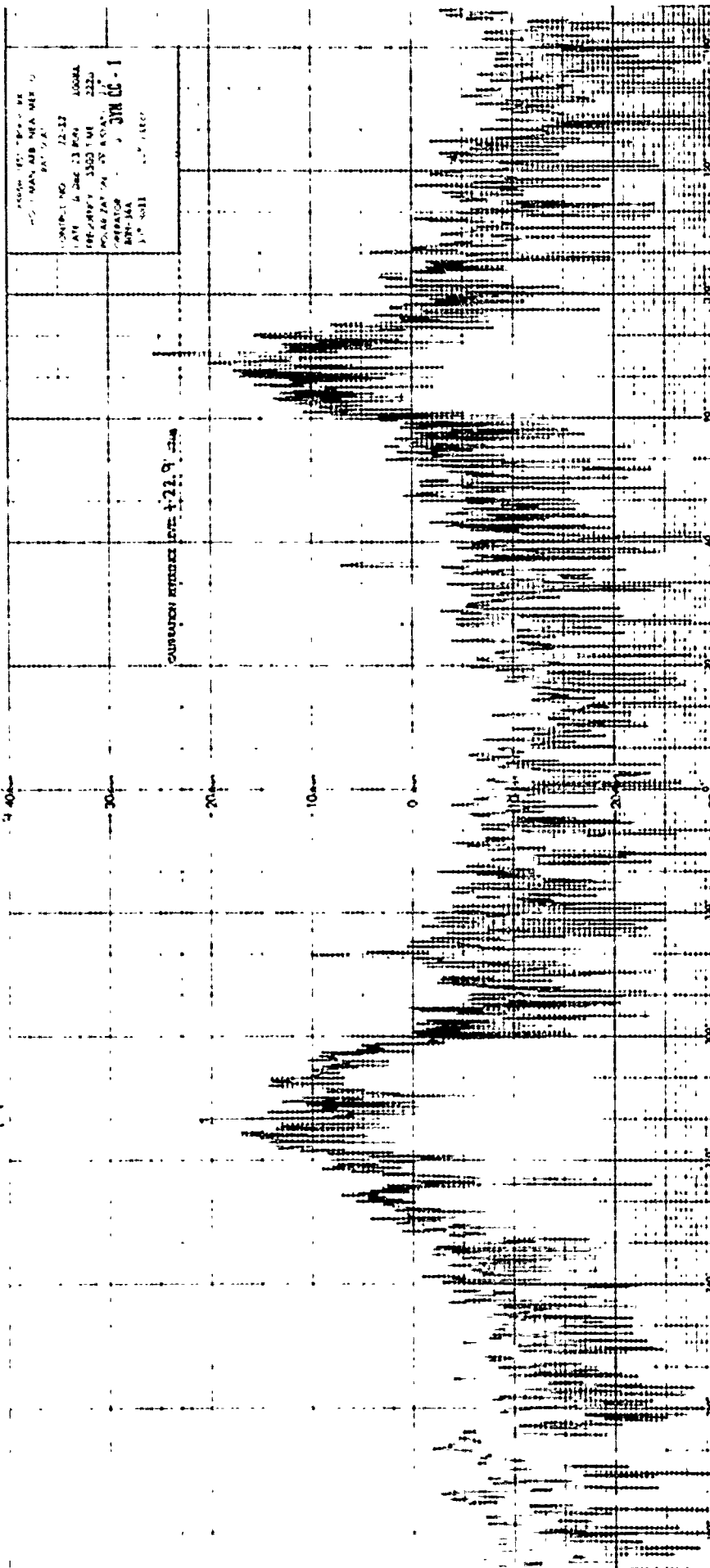
5555th TEST GROUP (RT)
HOLCOMB AFB NEW MEXICO
BAT 501

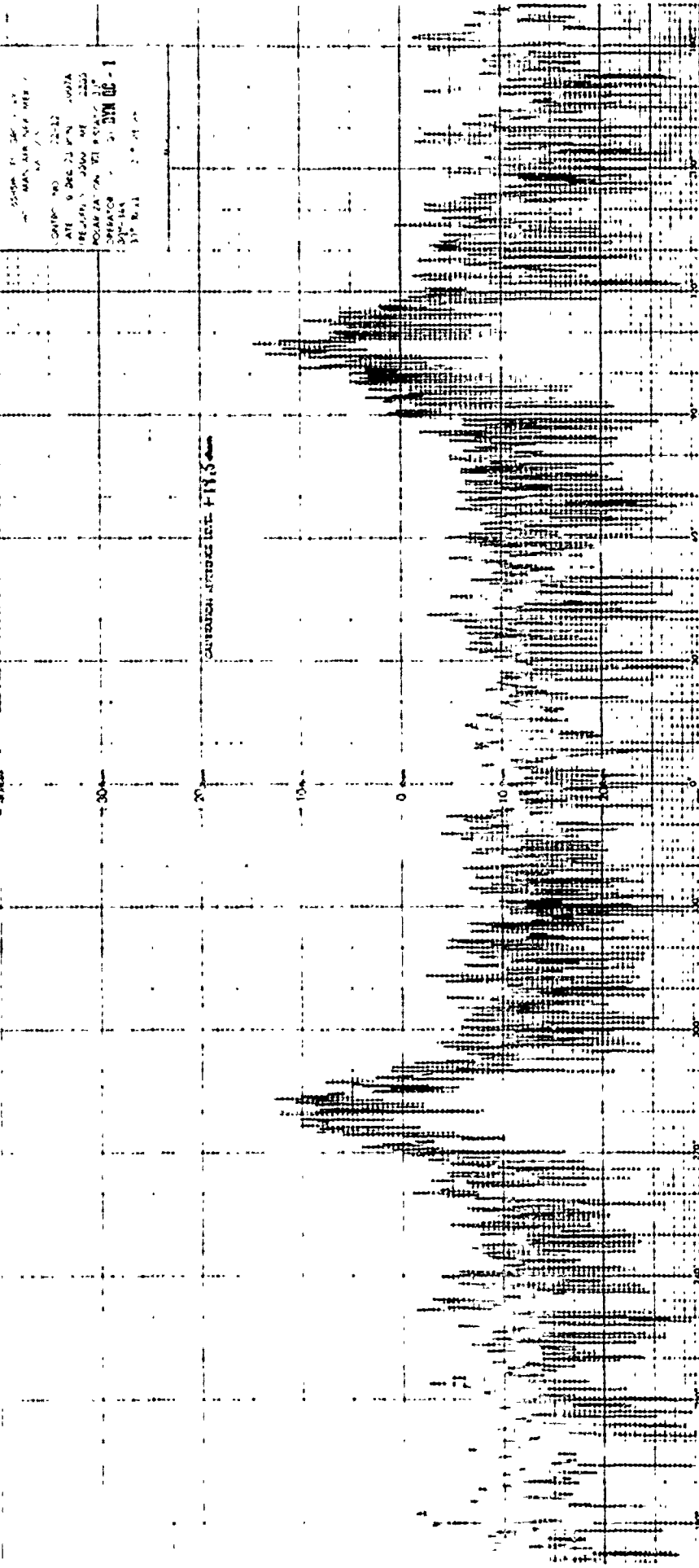
CONTROL NO. 22-17
DATE 6 Dec 73 EUN 1010A
FREQUENCY 5500 TUE 2340
POLARIZATION VB BSLTIC 0°
OPERATOR GS OGDVN 06-1
804-344
0° Roll 20° Pitch

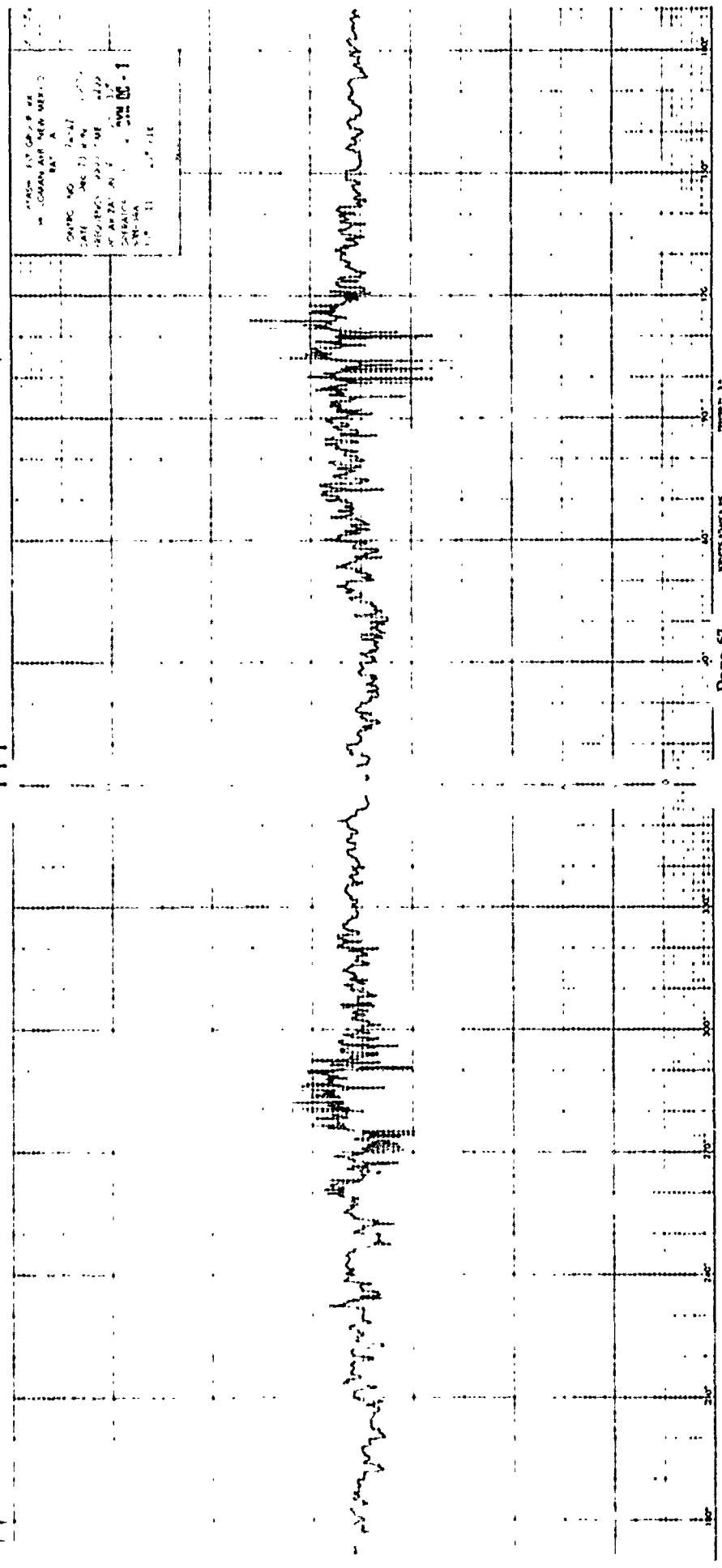






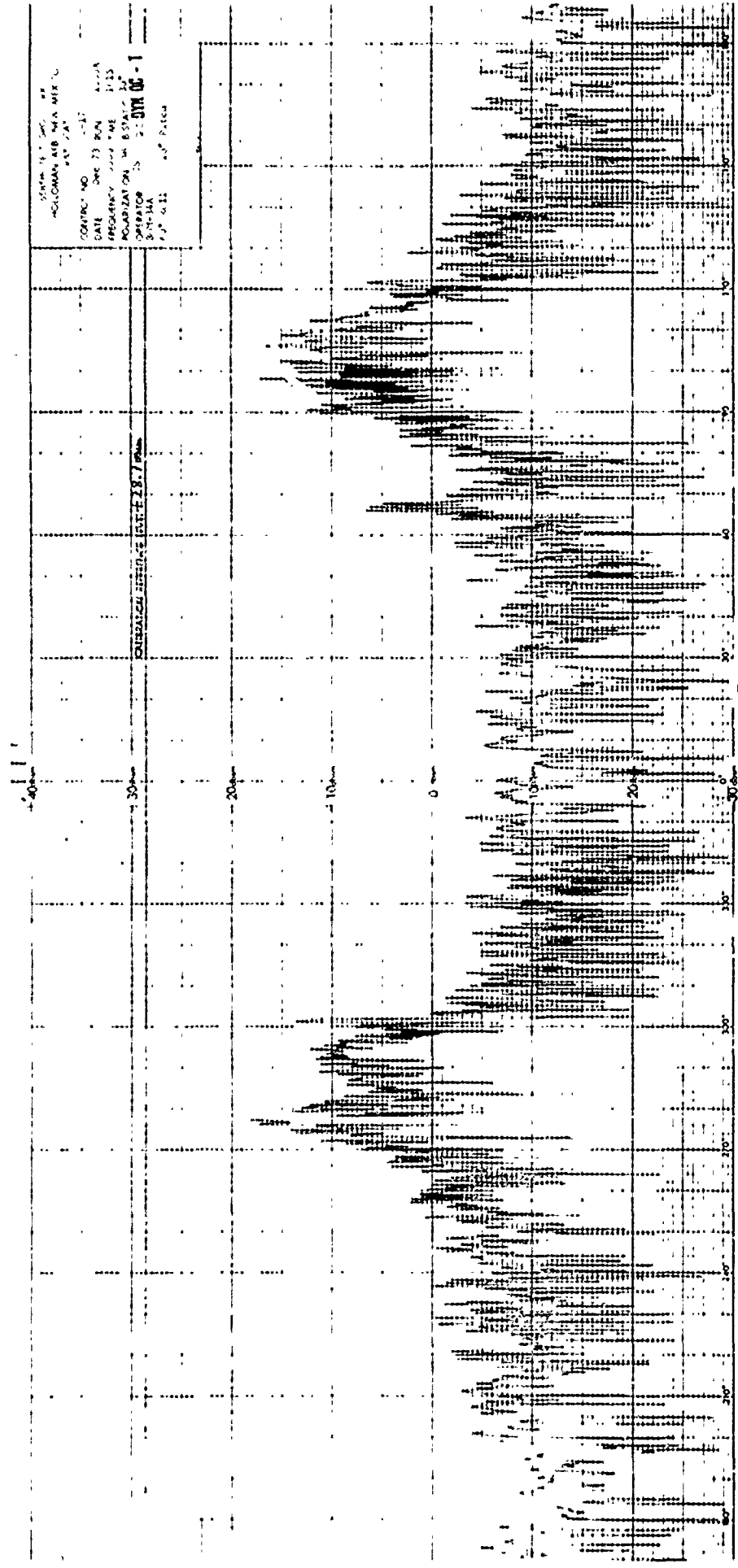






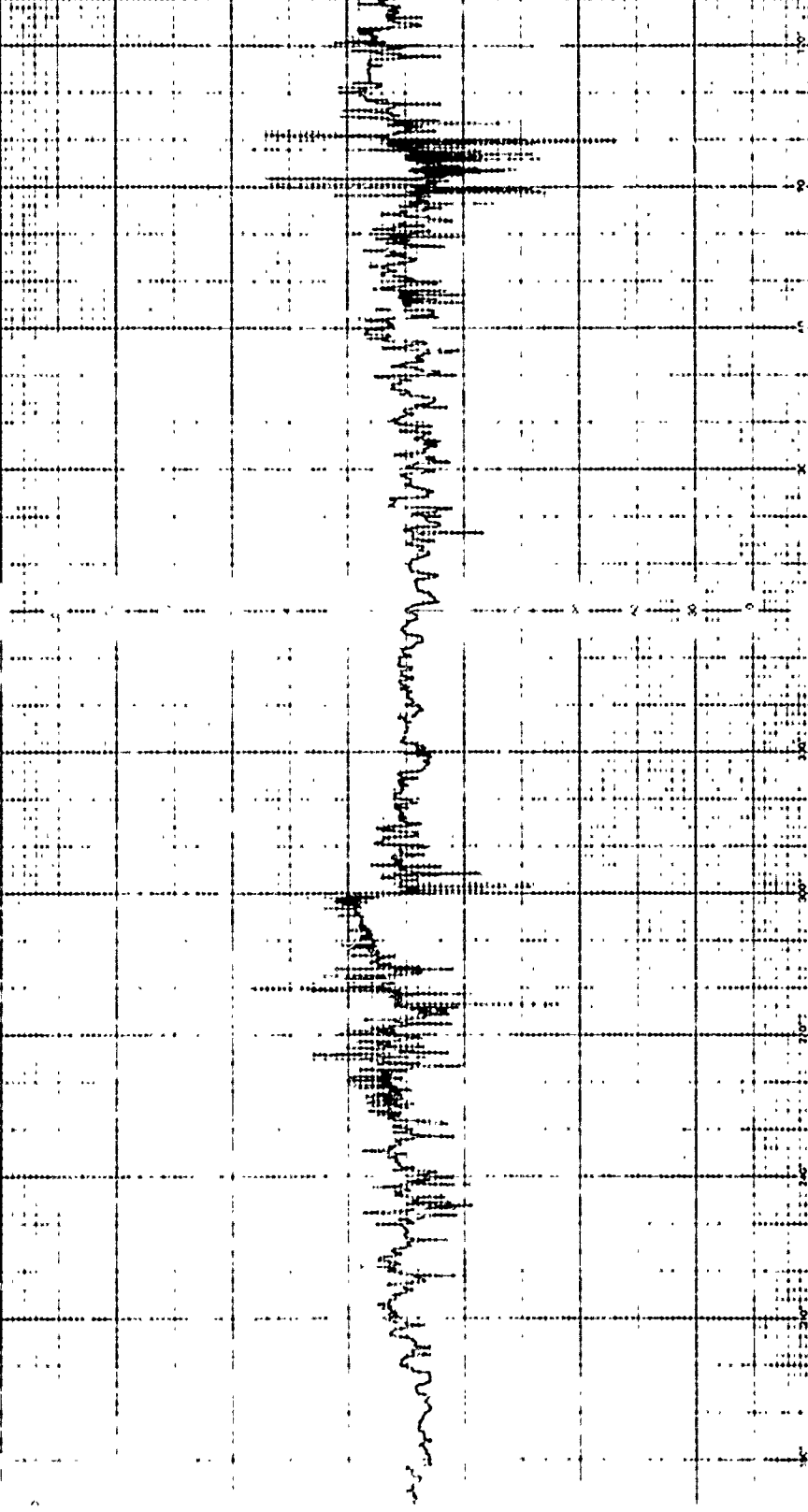
SYSTEM 14-1-50
 HOLONMAN AFB NEW MEXICO
 CONTRACT NO. 14-1-50
 DATE DEC 23 1950
 FREQUENCY 1000 KHz
 MODULATION 100%
 OPERATOR J. J. J. J.
 14-1-50

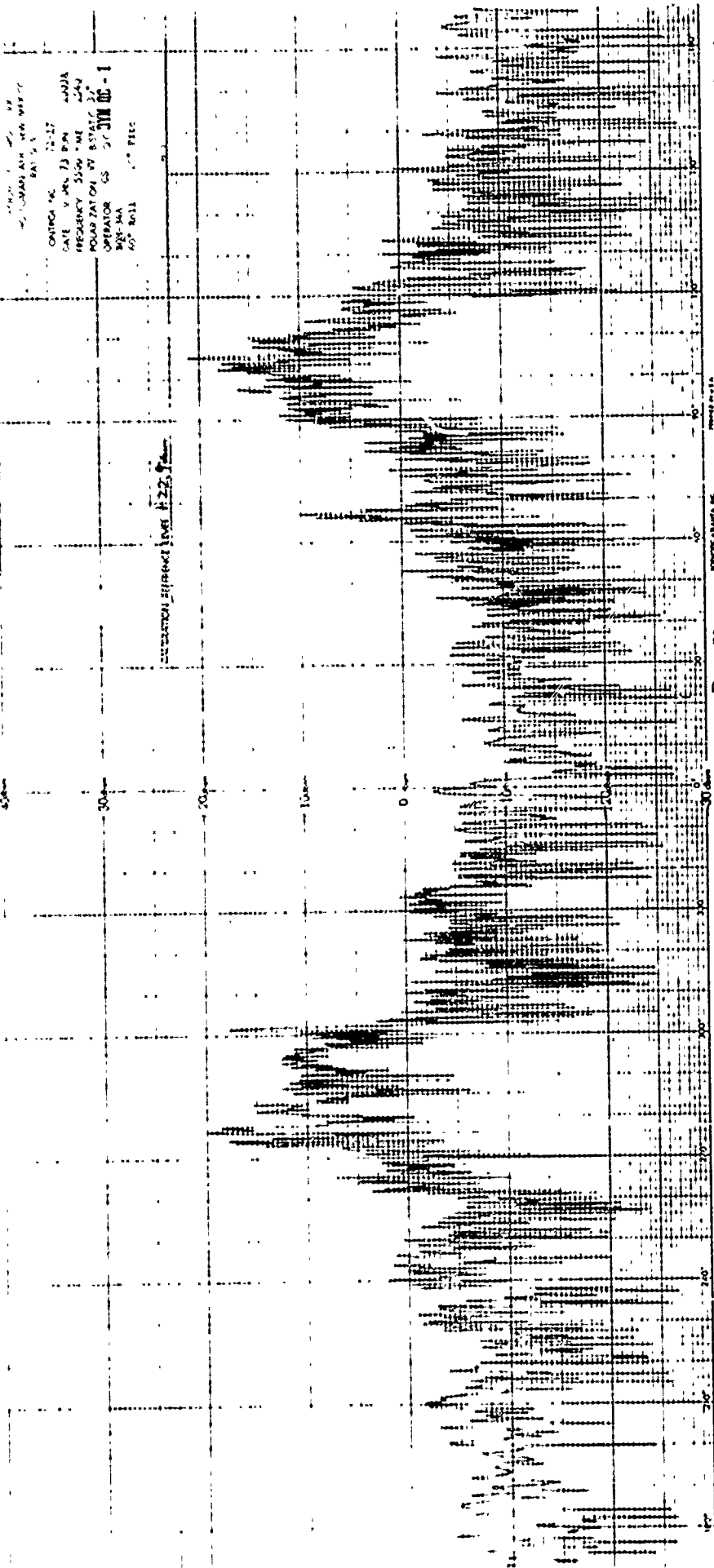
CONNECTIONS BETWEEN 14-1-50 AND 14-1-50



555m TEST GROUP #30
HOLLOMAN AFB NEW MEXICO
BAT SCAT

CONTROL NO	72-22
DATE	6 DEC 73
FREQUENCY	55.75 MHz
POLARIZATION	OR ROTATES 30°
OPERATOR	US
SW-34A	2-578 00-1
60" ROLL	43" PITCH

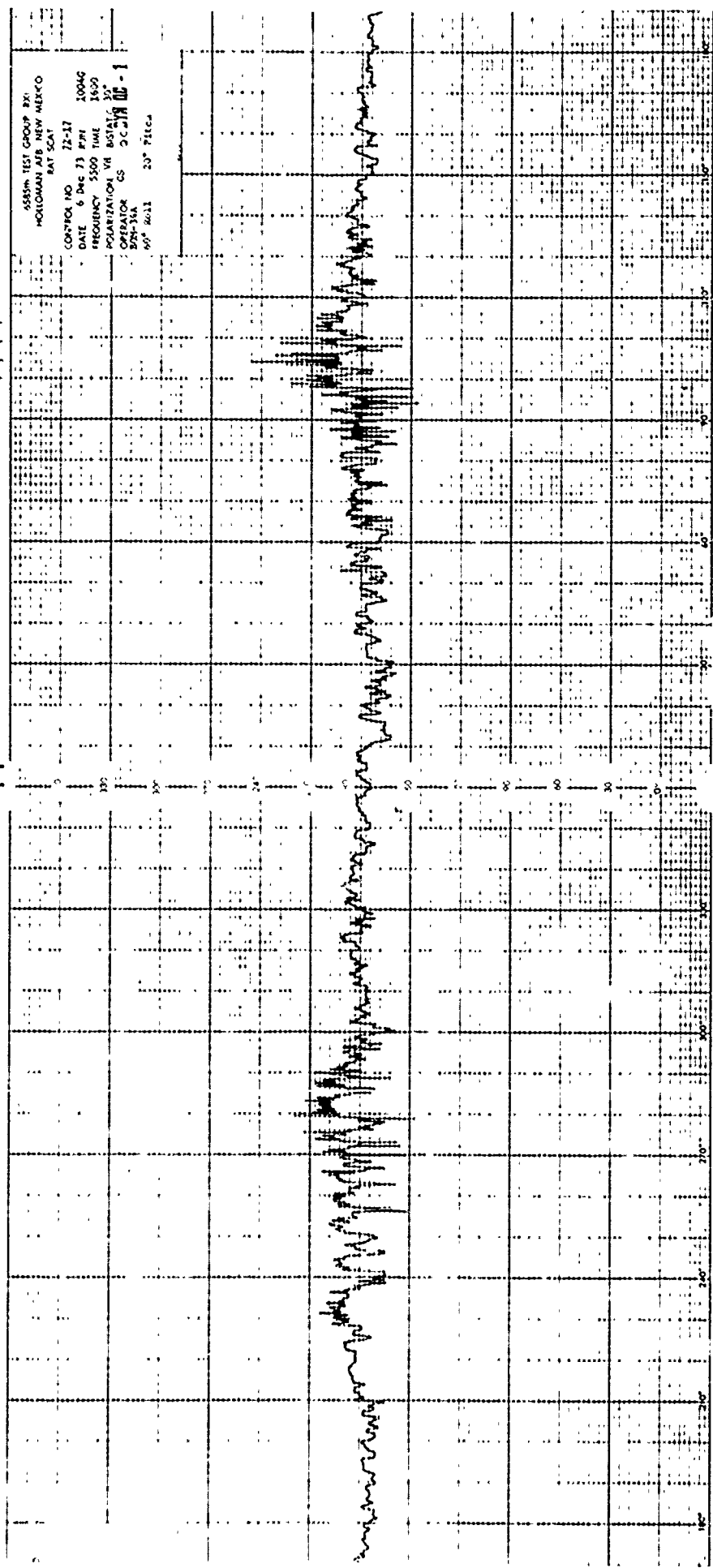




ONTARIO 16 12-22
 DATE 11-11-73 PM 10:11
 FREQUENCY 5000 Hz
 POSITION 01 01 01 01 01 01
 OPERATOR CS 11-11-73
 11-11-73
 11-11-73

CONTROL NO 12-17
DATE 6 Dec 73 RUN 1004A
FREQUENCY 2500 MHz 1600
POLARIZATION VERTICAL
OPERATOR CS GCM
BOX-14A
6 Dec 2011 20:17

WILLIAM J. FULTON



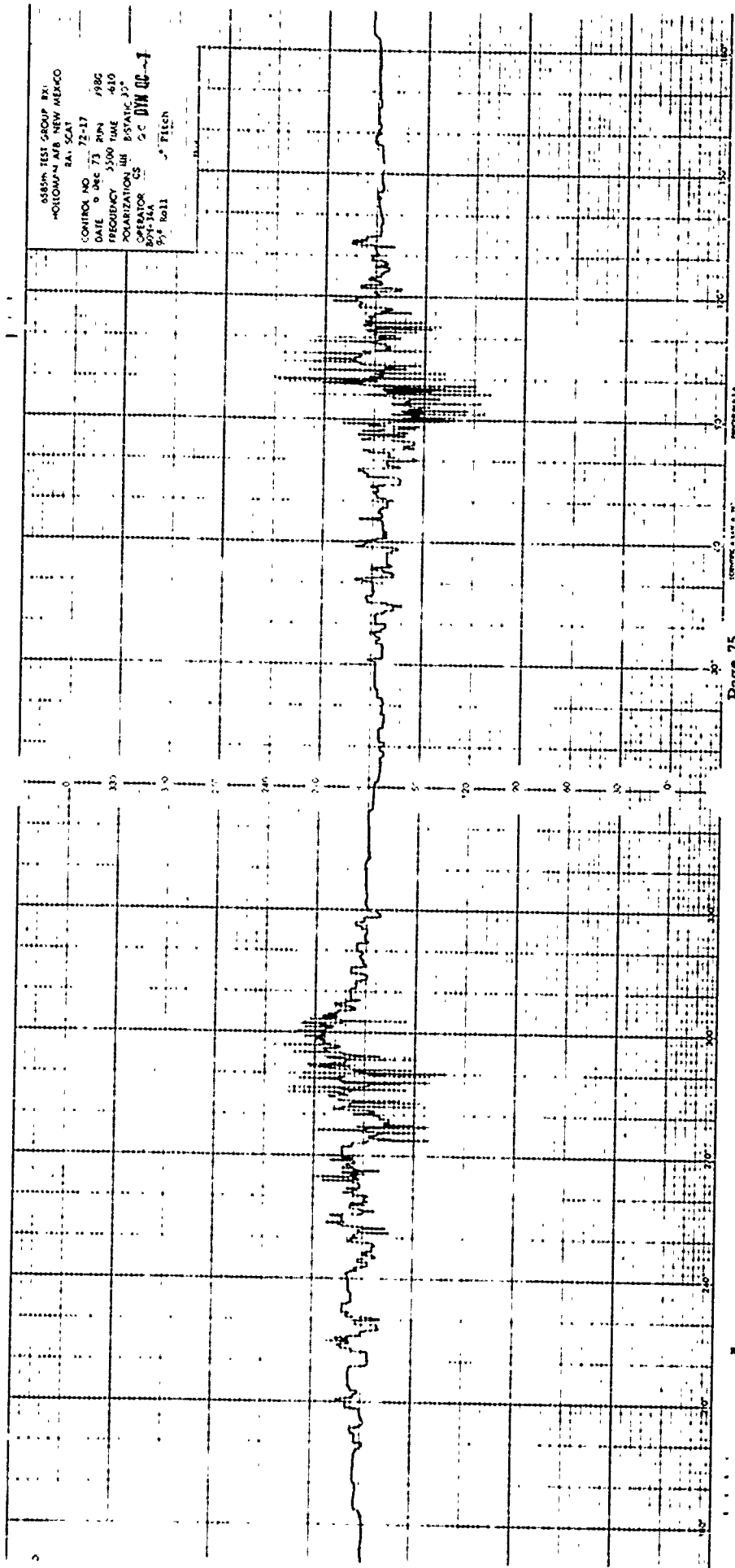
WIND 157 26.2 1.4
NO. 100000 AIR NEW 11/1/70
WAT 1/1

CALCUL NO. 22-12 928A
DATE 6 DEC 21 1970 2610
FREQUENCY 5500 144 2610
POLARIZATION 01 95 27
OPERATOR GS 5-30 10-1
500-10A
90° Roll 10° Pitch

CALCULATION REFERENCE LEVEL 17.2

6385th TEST GROUP ERI
HOLCOMB AFB NEW MEXICO
1A1 SCAT

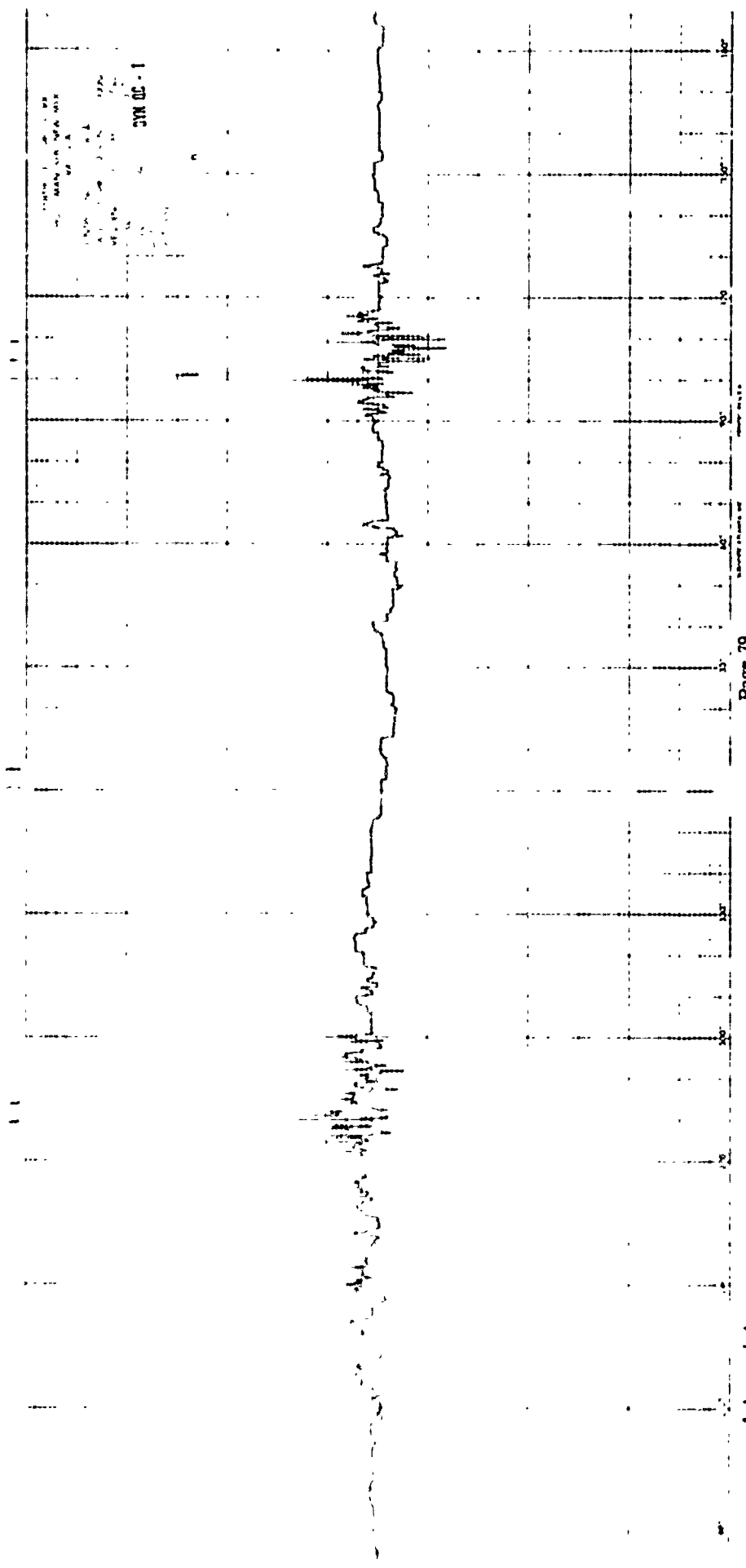
CONTROL NO 72-17
DATE 9 Dec 73 RPN /88G
FREQUENCY 3500 TUE 4610
POLARIZATION III ESTATIC 30°
OPERATOR CS G.C. DYN QC-3
BOM-31A
9th Ball
J. Fitch

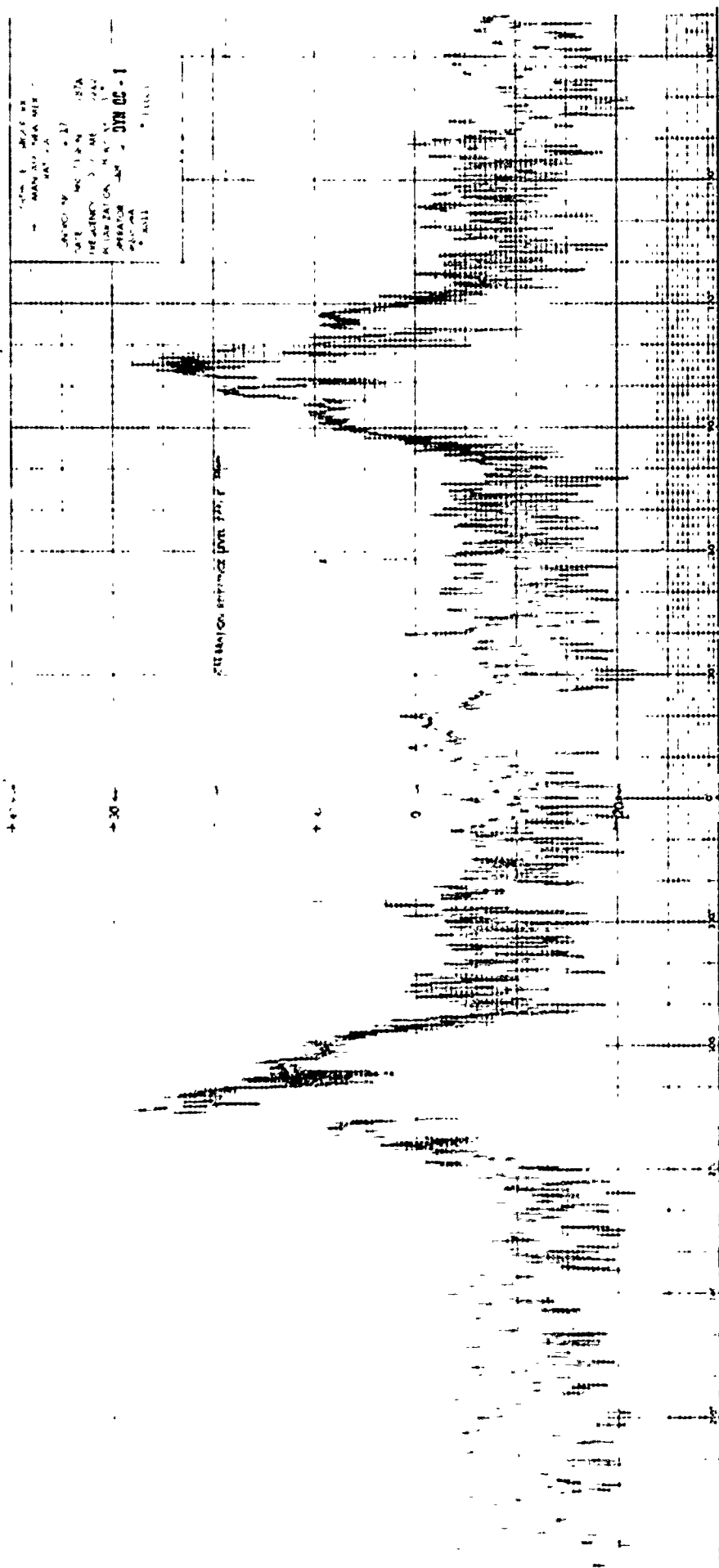


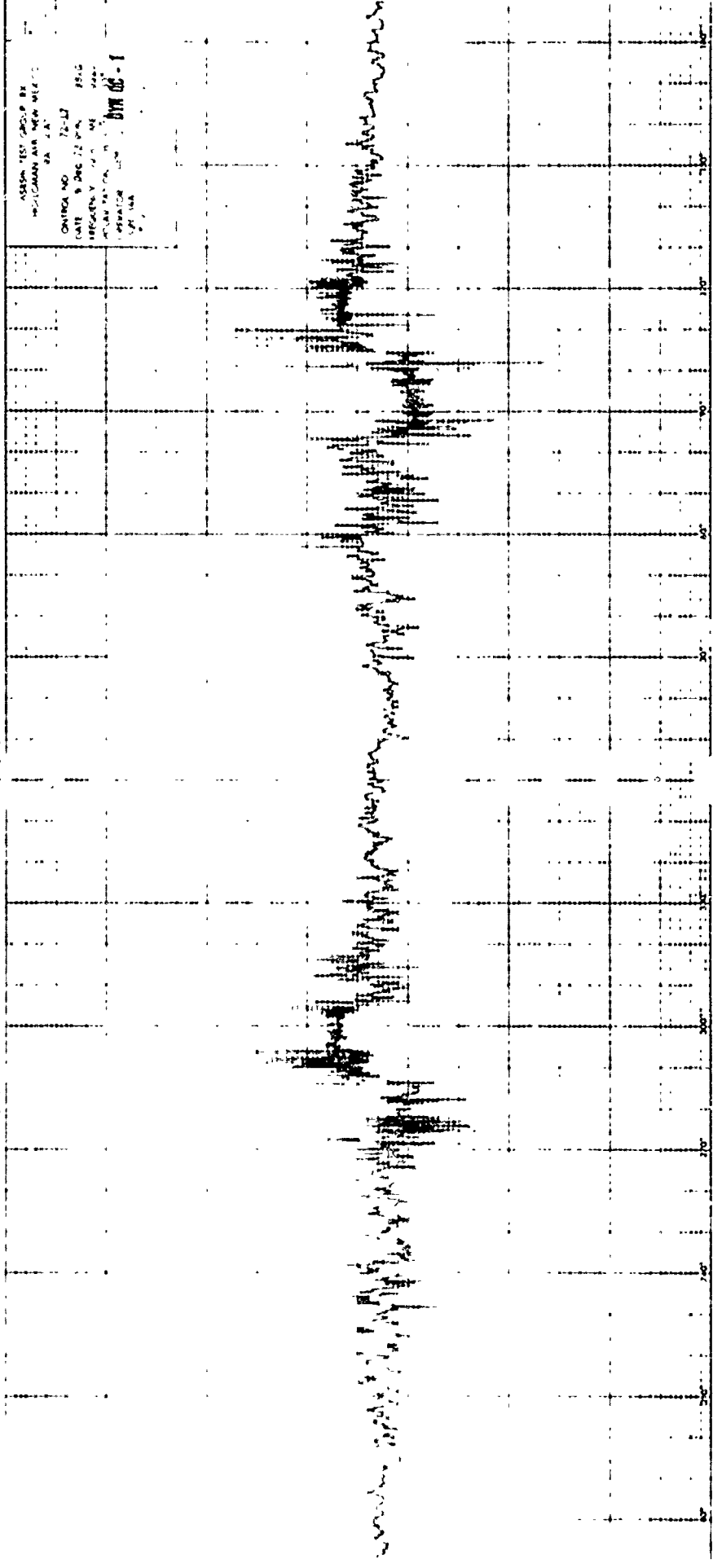
CONTROL NO. 12-17
DATE 6 Dec 73 R.V. 1000A
FREQUENCY 5500 TIME 0629
POLARIZATION VV DISTANCE 30°
OPERATOR CS C C SYM DC - 1
BOM-34A
20° Roll 20° Pitch

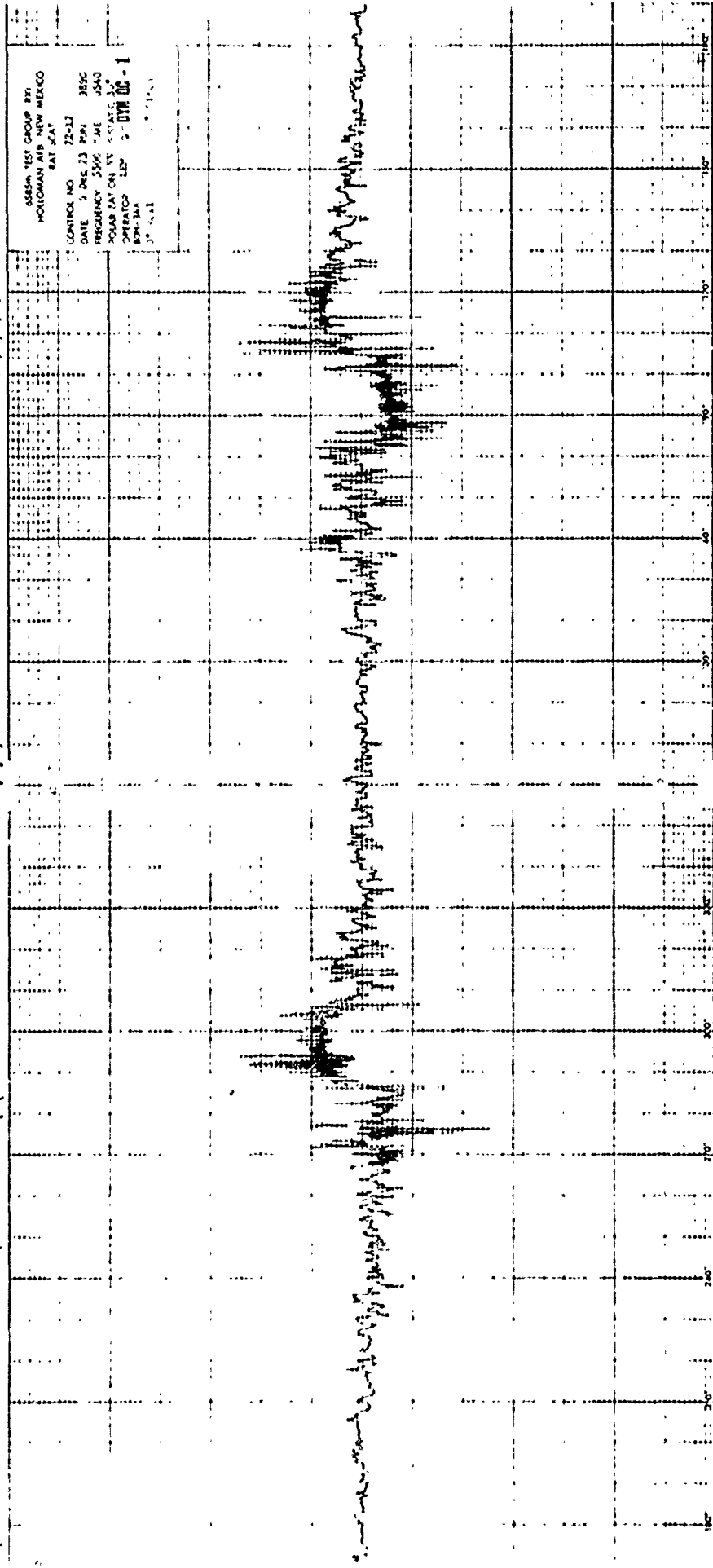
4-13-48am
PALMERSON TERRACE UNIT

[illegible]



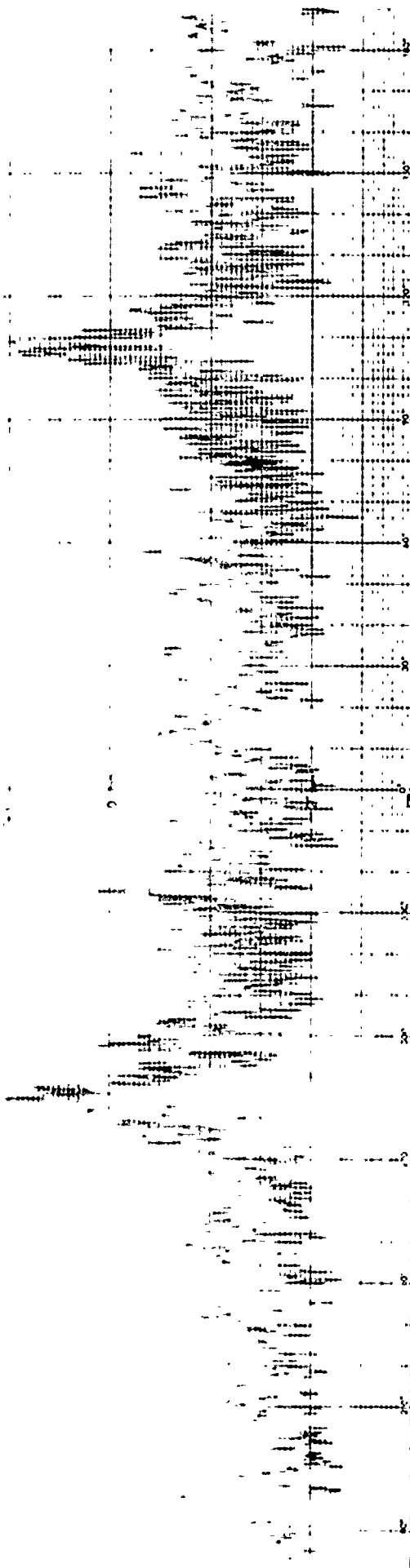




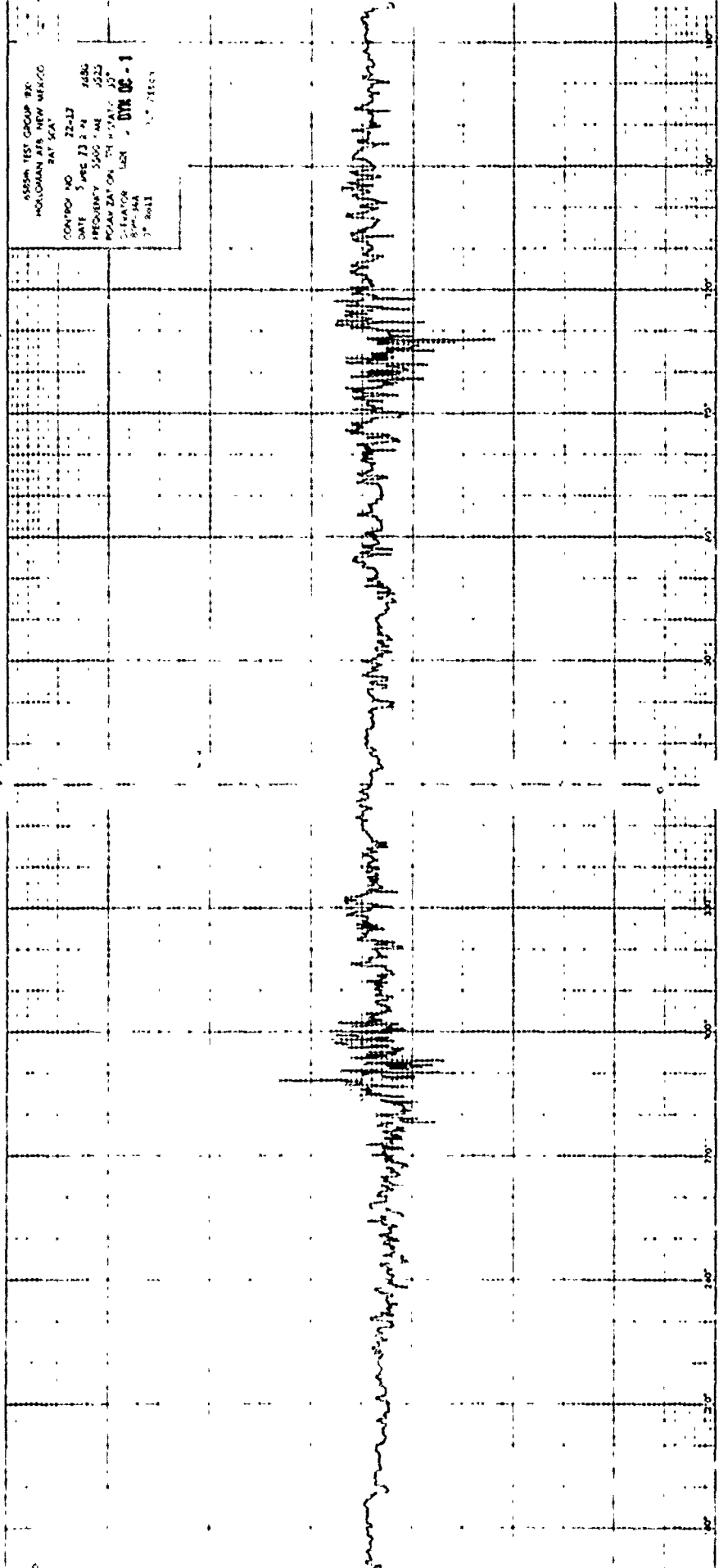


1. NAME OF THE PARTY 2. ADDRESS 3. CITY 4. STATE 5. ZIP 6. PHONE 7. FAX 8. E-MAIL 9. OTHER		10. NAME OF THE PARTY 11. ADDRESS 12. CITY 13. STATE 14. ZIP 15. PHONE 16. FAX 17. E-MAIL 18. OTHER	
19. NAME OF THE PARTY 20. ADDRESS 21. CITY 22. STATE 23. ZIP 24. PHONE 25. FAX 26. E-MAIL 27. OTHER		28. NAME OF THE PARTY 29. ADDRESS 30. CITY 31. STATE 32. ZIP 33. PHONE 34. FAX 35. E-MAIL 36. OTHER	

DATE OF BIRTH



ASSEM TEST GROUP 82
 HOKOMAN AIR NEW MEXICO
 BAT 5A
 CONTROL NO 22-12
 DATE 5 APR 73 2 41 48Z
 FREQUENCY 5500 MHz
 PEAK BAT ON 24 APR 73
 2.4V 1.0A
 7" BALL
 1.5" FEED
 DTR 02-1



2000-2001

1898

17-77 183

360
361
362
363
364
365
366
367
368
369
370
371
372
373
374
375
376
377
378
379
380
381
382
383
384
385
386
387
388
389
390
391
392
393
394
395
396
397
398
399
400
401
402
403
404
405
406
407
408
409
410
411
412
413
414
415
416
417
418
419
420
421
422
423
424
425
426
427
428
429
430
431
432
433
434
435
436
437
438
439
440
441
442
443
444
445
446
447
448
449
450
451
452
453
454
455
456
457
458
459
460
461
462
463
464
465
466
467
468
469
470
471
472
473
474
475
476
477
478
479
480
481
482
483
484
485
486
487
488
489
490
491
492
493
494
495
496
497
498
499
500
501
502
503
504
505
506
507
508
509
510
511
512
513
514
515
516
517
518
519
520
521
522
523
524
525
526
527
528
529
530
531
532
533
534
535
536
537
538
539
540
541
542
543
544
545
546
547
548
549
550
551
552
553
554
555
556
557
558
559
560
561
562
563
564
565
566
567
568
569
570
571
572
573
574
575
576
577
578
579
580
581
582
583
584
585
586
587
588
589
590
591
592
593
594
595
596
597
598
599
600
601
602
603
604
605
606
607
608
609
610
611
612
613
614
615
616
617
618
619
620
621
622
623
624
625
626
627
628
629
630
631
632
633
634
635
636
637
638
639
640
641
642
643
644
645
646
647
648
649
650
651
652
653
654
655
656
657
658
659
660
661
662
663
664
665
666
667
668
669
670
671
672
673
674
675
676
677
678
679
680
681
682
683
684
685
686
687
688
689
690
691
692
693
694
695
696
697
698
699
700
701
702
703
704
705
706
707
708
709
710
711
712
713
714
715
716
717
718
719
720
721
722
723
724
725
726
727
728
729
730
731
732
733
734
735
736
737
738
739
740
741
742
743
744
745
746
747
748
749
750
751
752
753
754
755
756
757
758
759
760
761
762
763
764
765
766
767
768
769
770
771
772
773
774
775
776
777
778
779
780
781
782
783
784
785
786
787
788
789
790
791
792
793
794
795
796
797
798
799
800
801
802
803
804
805
806
807
808
809
810
811
812
813
814
815
816
817
818
819
820
821
822
823
824
825
826
827
828
829
830
831
832
833
834
835
836
837
838
839
840
841
842
843
844
845
846
847
848
849
850
851
852
853
854
855
856
857
858
859
860
861
862
863
864
865
866
867
868
869
870
871
872
873
874
875
876
877
878
879
880
881
882
883
884
885
886
887
888
889
890
891
892
893
894
895
896
897
898
899
900
901
902
903
904
905
906
907
908
909
910
911
912
913
914
915
916
917
918
919
920
921
922
923
924
925
926
927
928
929
930
931
932
933
934
935
936
937
938
939
940
941
942
943
944
945
946
947
948
949
950
951
952
953
954
955
956
957
958
959
960
961
962
963
964
965
966
967
968
969
970
971
972
973
974
975
976
977
978
979
980
981
982
983
984
985
986
987
988
989
990
991
992
993
994
995
996
997
998
999
1000

36A
4-1-54
-22-
- 30 MAG -

6028 } • 7929

1

—

1000

1
 2
 3
 4
 5
 6
 7
 8
 9
 10
 11
 12
 13
 14
 15
 16
 17
 18
 19
 20
 21
 22
 23
 24
 25
 26
 27
 28
 29
 30
 31
 32
 33
 34
 35
 36
 37
 38
 39
 40
 41
 42
 43
 44
 45
 46
 47
 48
 49
 50
 51
 52
 53
 54
 55
 56
 57
 58
 59
 60
 61
 62
 63
 64
 65
 66
 67
 68
 69
 70
 71
 72
 73
 74
 75
 76
 77
 78
 79
 80
 81
 82
 83
 84
 85
 86
 87
 88
 89
 90
 91
 92
 93
 94
 95
 96
 97
 98
 99
 100
 101
 102
 103
 104
 105
 106
 107
 108
 109
 110
 111
 112
 113
 114
 115
 116
 117
 118
 119
 120
 121
 122
 123
 124
 125
 126
 127
 128
 129
 130
 131
 132
 133
 134
 135
 136
 137
 138
 139
 140
 141
 142
 143
 144
 145
 146
 147
 148
 149
 150
 151
 152
 153
 154
 155
 156
 157
 158
 159
 160
 161
 162
 163
 164
 165
 166
 167
 168
 169
 170
 171
 172
 173
 174
 175
 176
 177
 178
 179
 180
 181
 182
 183
 184
 185
 186
 187
 188
 189
 190
 191
 192
 193
 194
 195
 196
 197
 198
 199
 200
 201
 202
 203
 204
 205
 206
 207
 208
 209
 210
 211
 212
 213
 214
 215
 216
 217
 218
 219
 220
 221
 222
 223
 224
 225
 226
 227
 228
 229
 230
 231
 232
 233
 234
 235
 236
 237
 238
 239
 240
 241
 242
 243
 244
 245
 246
 247
 248
 249
 250
 251
 252
 253
 254
 255
 256
 257
 258
 259
 260
 261
 262
 263
 264
 265
 266
 267
 268
 269
 270
 271
 272
 273
 274
 275
 276
 277
 278
 279
 280
 281
 282
 283
 284
 285
 286
 287
 288
 289
 290
 291
 292
 293
 294
 295
 296
 297
 298
 299
 300
 301
 302
 303
 304
 305
 306
 307
 308
 309
 310
 311
 312
 313
 314
 315
 316
 317
 318
 319
 320
 321
 322
 323
 324
 325
 326
 327
 328
 329
 330
 331
 332
 333
 334
 335
 336
 337
 338
 339
 340
 341
 342
 343
 344
 345
 346
 347
 348
 349
 350
 351
 352
 353
 354
 355
 356
 357
 358
 359
 360
 361
 362
 363
 364
 365
 366
 367
 368
 369
 370
 371
 372
 373
 374
 375
 376
 377
 378
 379
 380
 381
 382
 383
 384
 385
 386
 387
 388
 389
 390
 391
 392
 393
 394
 395
 396
 397
 398
 399
 400
 401
 402
 403
 404
 405
 406
 407
 408
 409
 410
 411
 412
 413
 414
 415
 416
 417
 418
 419
 420
 421
 422
 423
 424
 425
 426
 427
 428
 429
 430
 431
 432
 433
 434
 435
 436
 437
 438
 439
 440
 441
 442
 443
 444
 445
 446
 447
 448
 449
 450
 451
 452
 453
 454
 455
 456
 457
 458
 459
 460
 461
 462
 463
 464
 465
 466
 467
 468
 469
 470
 471
 472
 473
 474
 475
 476
 477
 478
 479
 480
 481
 482
 483
 484
 485
 486
 487
 488
 489
 490
 491
 492
 493
 494
 495
 496
 497
 498
 499
 500
 501
 502
 503
 504
 505
 506
 507
 508
 509
 510
 511
 512
 513
 514
 515
 516
 517
 518
 519
 520
 521
 522
 523
 524
 525

—

1

—

1990

11

11

1
 2
 3
 4
 5
 6
 7
 8
 9
 10
 11
 12
 13
 14
 15
 16
 17
 18
 19
 20
 21
 22
 23
 24
 25
 26
 27
 28
 29
 30
 31
 32
 33
 34
 35
 36
 37
 38
 39
 40
 41
 42
 43
 44
 45
 46
 47
 48
 49
 50
 51
 52
 53
 54
 55
 56
 57
 58
 59
 60
 61
 62
 63
 64
 65
 66
 67
 68
 69
 70
 71
 72
 73
 74
 75
 76
 77
 78
 79
 80
 81
 82
 83
 84
 85
 86
 87
 88
 89
 90
 91
 92
 93
 94
 95
 96
 97
 98
 99
 100
 101
 102
 103
 104
 105
 106
 107
 108
 109
 110
 111
 112
 113
 114
 115
 116
 117
 118
 119
 120
 121
 122
 123
 124
 125
 126
 127
 128
 129
 130
 131
 132
 133
 134
 135
 136
 137
 138
 139
 140
 141
 142
 143
 144
 145
 146
 147
 148
 149
 150
 151
 152
 153
 154
 155
 156
 157
 158
 159
 160
 161
 162
 163
 164
 165
 166
 167
 168
 169
 170
 171
 172
 173
 174
 175
 176
 177
 178
 179
 180
 181
 182
 183
 184
 185
 186
 187
 188
 189
 190
 191
 192
 193
 194
 195
 196
 197
 198
 199
 200
 201
 202
 203
 204
 205
 206
 207
 208
 209
 210
 211
 212
 213
 214
 215
 216
 217
 218
 219
 220
 221
 222
 223
 224
 225
 226
 227
 228
 229
 230
 231
 232
 233
 234
 235
 236
 237
 238
 239
 240
 241
 242
 243
 244
 245
 246
 247
 248
 249
 250
 251
 252
 253
 254
 255
 256
 257
 258
 259
 260
 261
 262
 263
 264
 265
 266
 267
 268
 269
 270
 271
 272
 273
 274
 275
 276
 277
 278
 279
 280
 281
 282
 283
 284
 285
 286
 287
 288
 289
 290
 291
 292
 293
 294
 295
 296
 297
 298
 299
 300
 301
 302
 303
 304
 305
 306
 307
 308
 309
 310
 311
 312
 313
 314
 315
 316
 317
 318
 319
 320
 321
 322
 323
 324
 325
 326
 327
 328
 329
 330
 331
 332
 333
 334
 335
 336
 337
 338
 339
 340
 341
 342
 343
 344
 345
 346
 347
 348
 349
 350
 351
 352
 353
 354
 355
 356
 357
 358
 359
 360
 361
 362
 363
 364
 365
 366
 367
 368
 369
 370
 371
 372
 373
 374
 375
 376
 377
 378
 379
 380
 381
 382
 383
 384
 385
 386
 387
 388
 389
 390
 391
 392
 393
 394
 395
 396
 397
 398
 399
 400
 401
 402
 403
 404
 405
 406
 407
 408
 409
 410
 411
 412
 413
 414
 415
 416
 417
 418
 419
 420
 421
 422
 423
 424
 425
 426
 427
 428
 429
 430
 431
 432
 433
 434
 435
 436
 437
 438
 439
 440
 441
 442
 443
 444
 445
 446
 447
 448
 449
 450
 451
 452
 453
 454
 455
 456
 457
 458
 459
 460
 461
 462
 463
 464
 465
 466
 467
 468
 469
 470
 471
 472
 473
 474
 475
 476
 477
 478
 479
 480
 481
 482
 483
 484
 485
 486
 487
 488
 489
 490
 491
 492
 493
 494
 495
 496
 497
 498
 499
 500
 501
 502
 503
 504
 505
 506
 507
 508
 509
 510
 511
 512
 513
 514
 515
 516
 517
 518
 519
 520
 521
 522
 523
 524
 525

...

(The page contains faint musical notation.)

100

Figure 1 is a schematic representation of the experimental setup. It shows a subject sitting at a table, looking at a video screen. A camera is positioned above the screen. A horizontal bar is placed on the table, with a vertical rod attached to it. The rod is connected to a motor unit. The motor unit is connected to a power source. The video screen displays the position of the rod and the bar. The subject is instructed to move the bar to a target position on the screen.

100

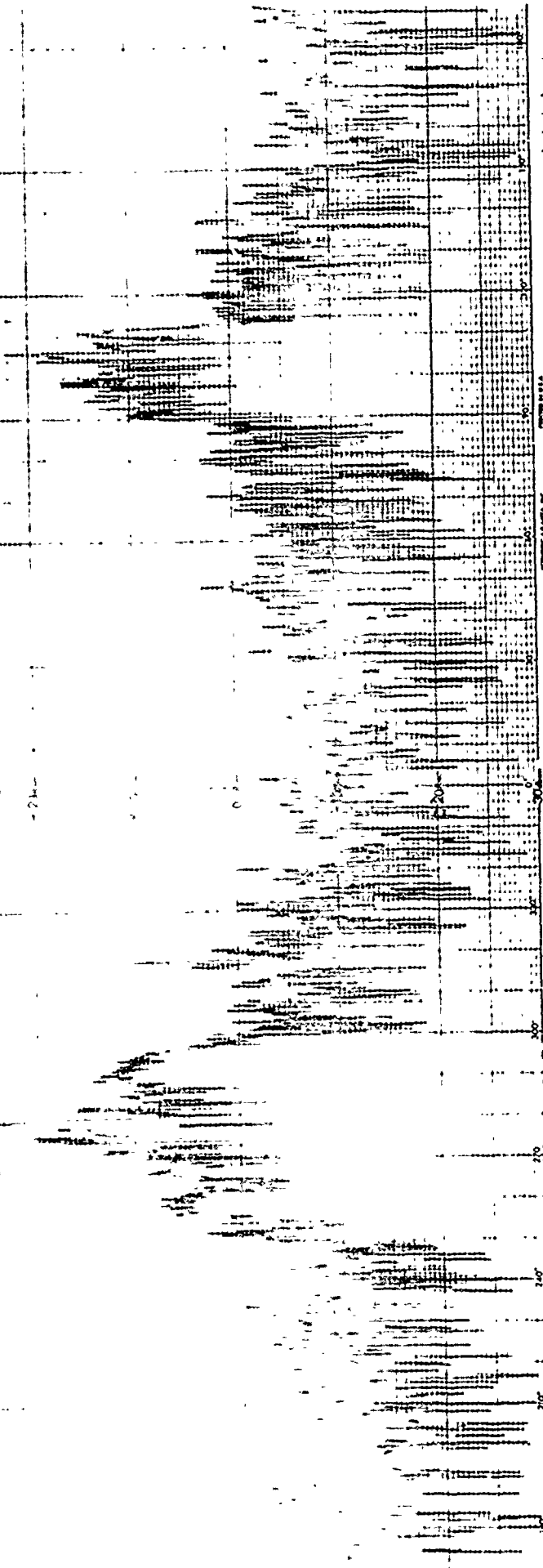
一	二	三	四	五	六	七	八	九	十	十一	十二	十三	十四	十五	十六	十七	十八	十九	二十	二十一	二十二	二十三	二十四	二十五	二十六	二十七	二十八	二十九	三十	三十一	三十二	三十三	三十四	三十五	三十六	三十七	三十八	三十九	四十	四十一	四十二	四十三	四十四	四十五	四十六	四十七	四十八	四十九	五十	五十一	五十二	五十三	五十四	五十五	五十六	五十七	五十八	五十九	六十	六十一	六十二	六十三	六十四	六十五	六十六	六十七	六十八	六十九	七十	七十一	七十二	七十三	七十四	七十五	七十六	七十七	七十八	七十九	八十	八十一	八十二	八十三	八十四	八十五	八十六	八十七	八十八	八十九	九十	九十一	九十二	九十三	九十四	九十五	九十六	九十七	九十八	九十九	一百
---	---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	----	----	----	-----	-----	-----	-----	-----	-----	-----	-----	-----	----	-----	-----	-----	-----	-----	-----	-----	-----	-----	----	-----	-----	-----	-----	-----	-----	-----	-----	-----	----	-----	-----	-----	-----	-----	-----	-----	-----	-----	----	-----	-----	-----	-----	-----	-----	-----	-----	-----	----	-----	-----	-----	-----	-----	-----	-----	-----	-----	----	-----	-----	-----	-----	-----	-----	-----	-----	-----	----	-----	-----	-----	-----	-----	-----	-----	-----	-----	----

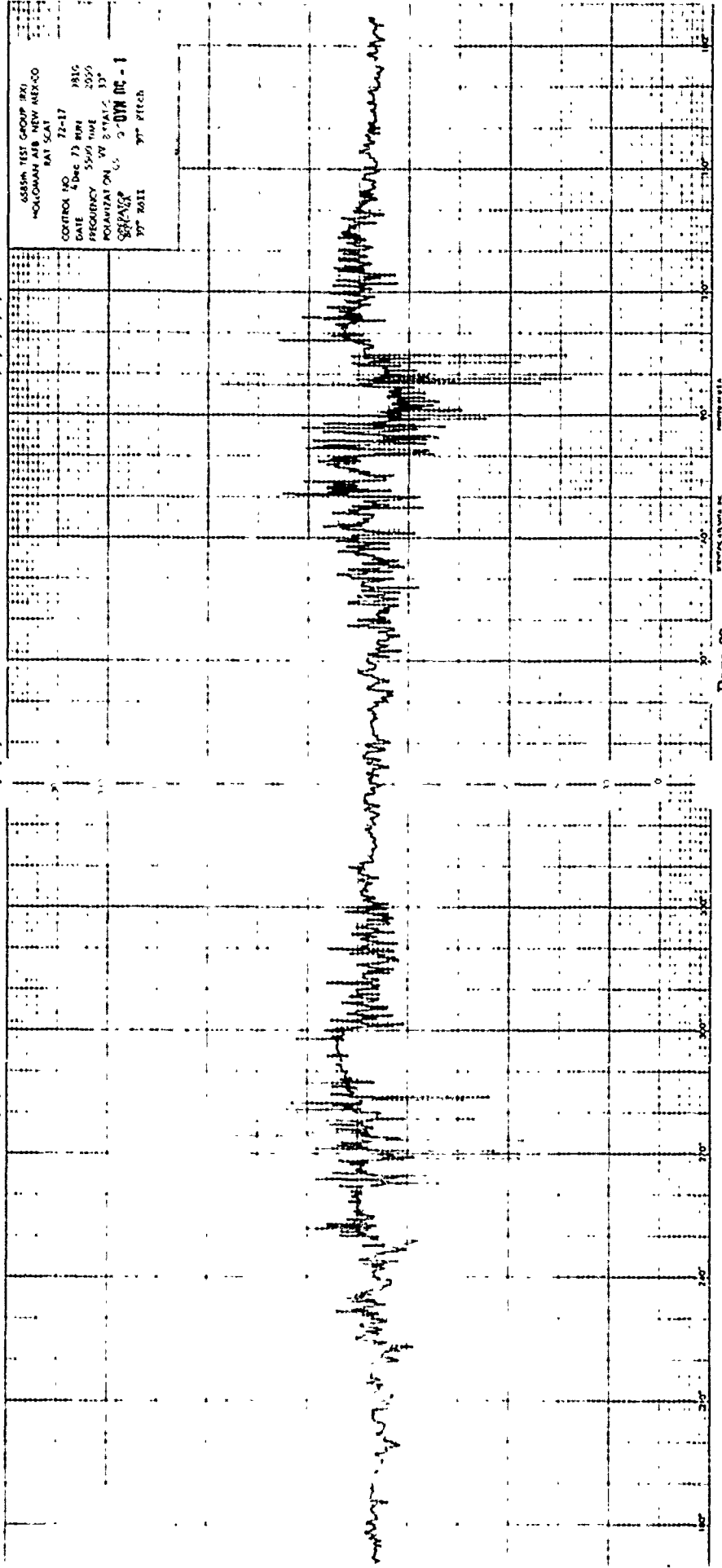
Wing 81 + tail removed (19.11.11)

Page 86

CARRIER NO. 32-27
 DATE 5 DEC 73
 FREQUENCY 257.4 MHz
 ORIGINATOR 101 R-1A
 OPERATOR 101 R-1A
 BY 101 R-1A
 30' HOLD 30' HOLD

WASH. STATE JAIL 1235 AM

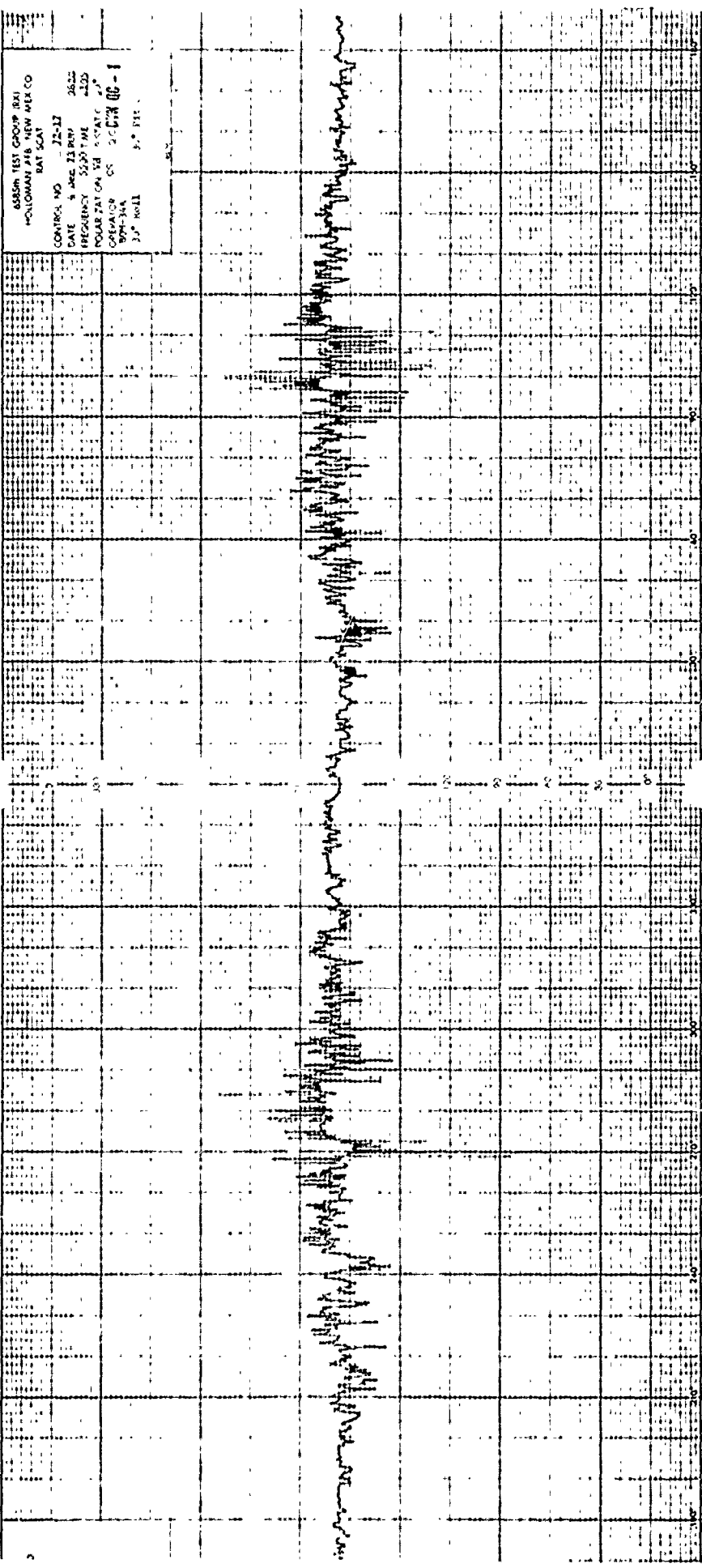




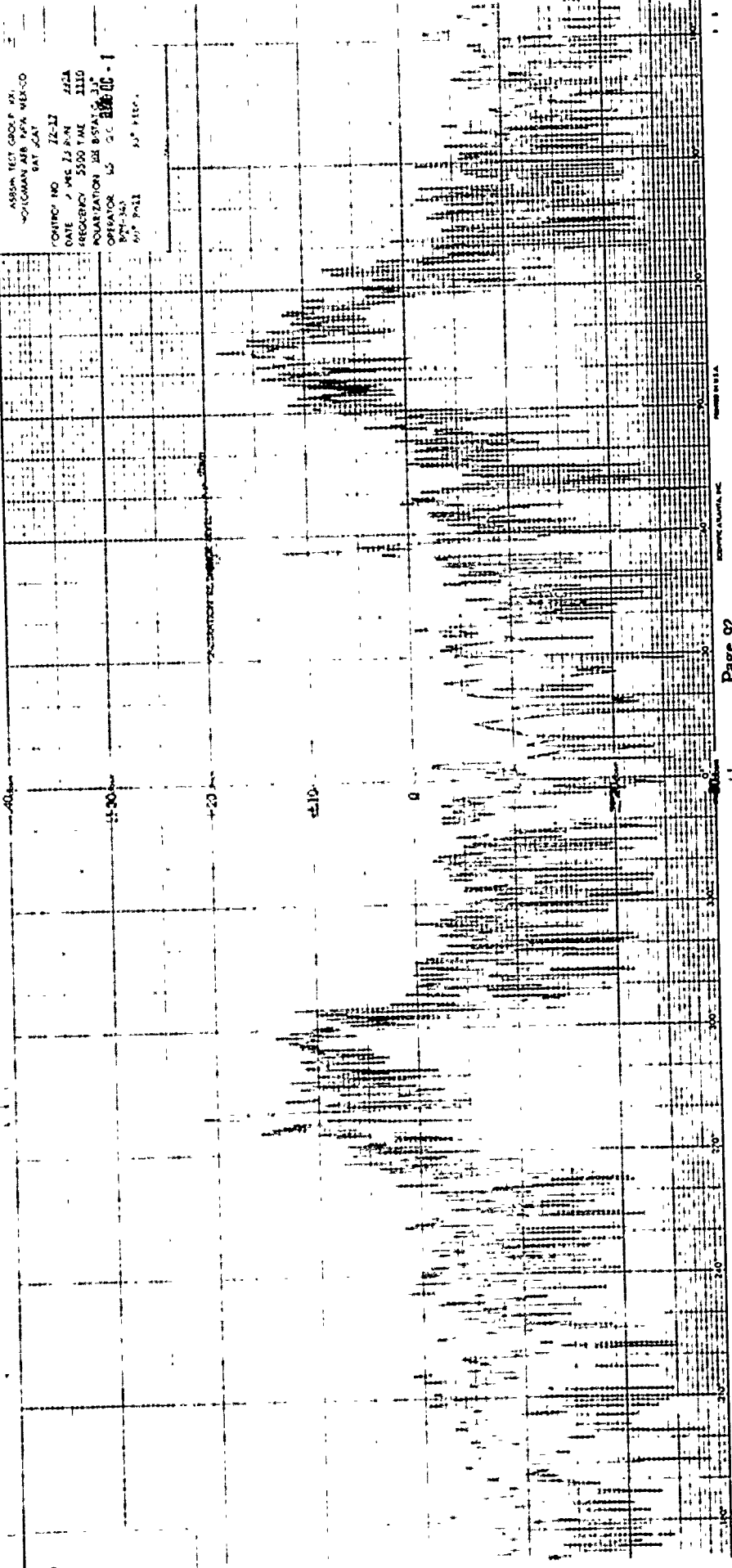
Reproduced from
best available copy.

WOLLMAN AIR NEW MEXICO
RAT 5247
COPIES NO. 12-17 2024
DATE 5 Dec 73 P-11 2100
FREQUENCY 5900 KHz 2100
MODULATION 30 KHz 2100
OPERATOR GS 3 00A 00-1
874-14A 10" Roll 10" Film

Amplitude, average over 100.3



ASSUM TEST GROUP 121
 WOLFGANG AIR TPA MEXICO
 SAT 201
 CONTROL NO 12-12
 DATE 7 DEC 73
 FREQUENCY 5500 KHz
 POLARIZATION RH 85%
 OPERATOR US G C
 874-143
 60° 1011

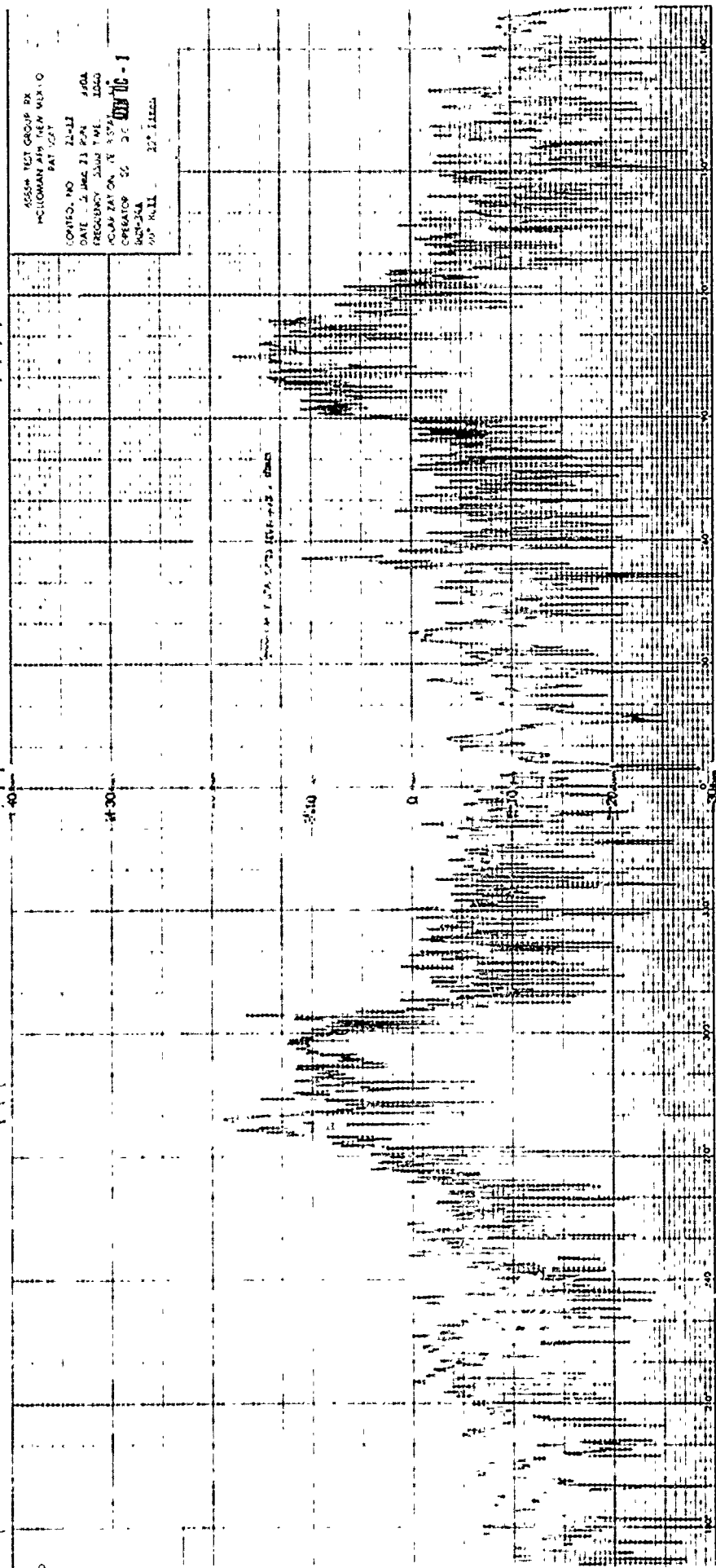


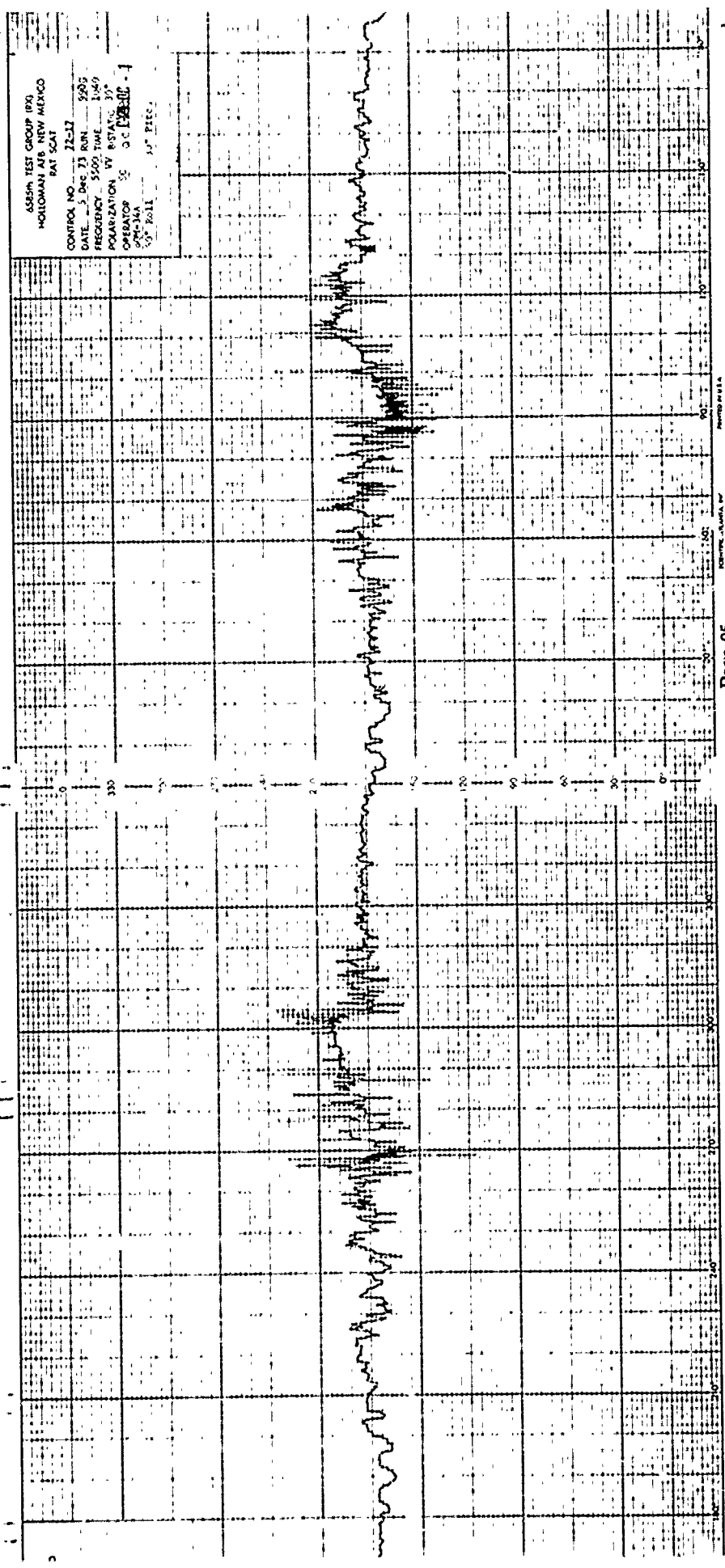
4021. 0.06

Page 93

ASSAULT GROUP BY
MICROGRAPHY
PAT 101

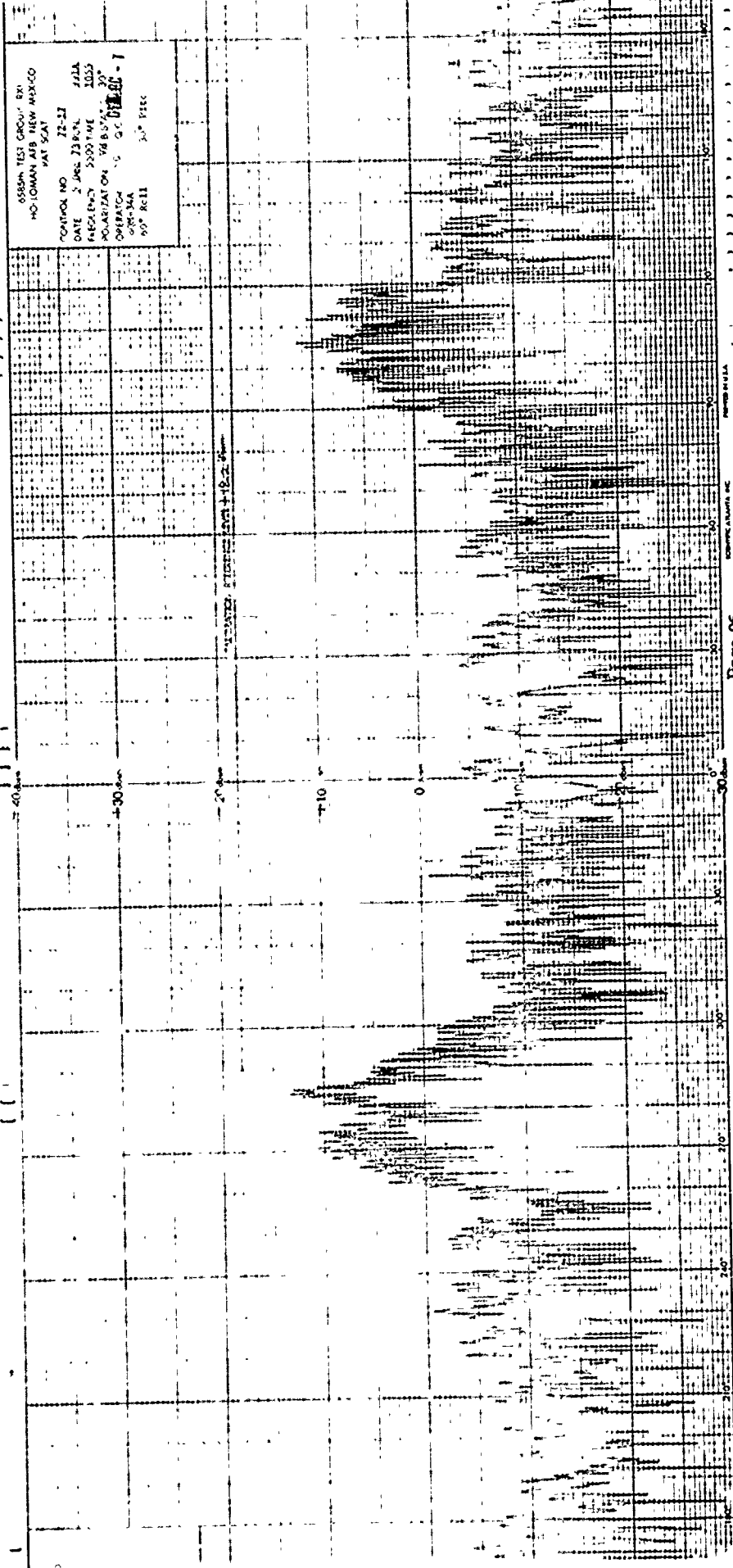
CONTROL NO 21-11
DATE 2 MAR 71 PM
FREQUENCY 2500 T.M.
ACAP ZAT ON 18 157
OPERATOR 22 20
MAG 200
400 KALL 100 LINES





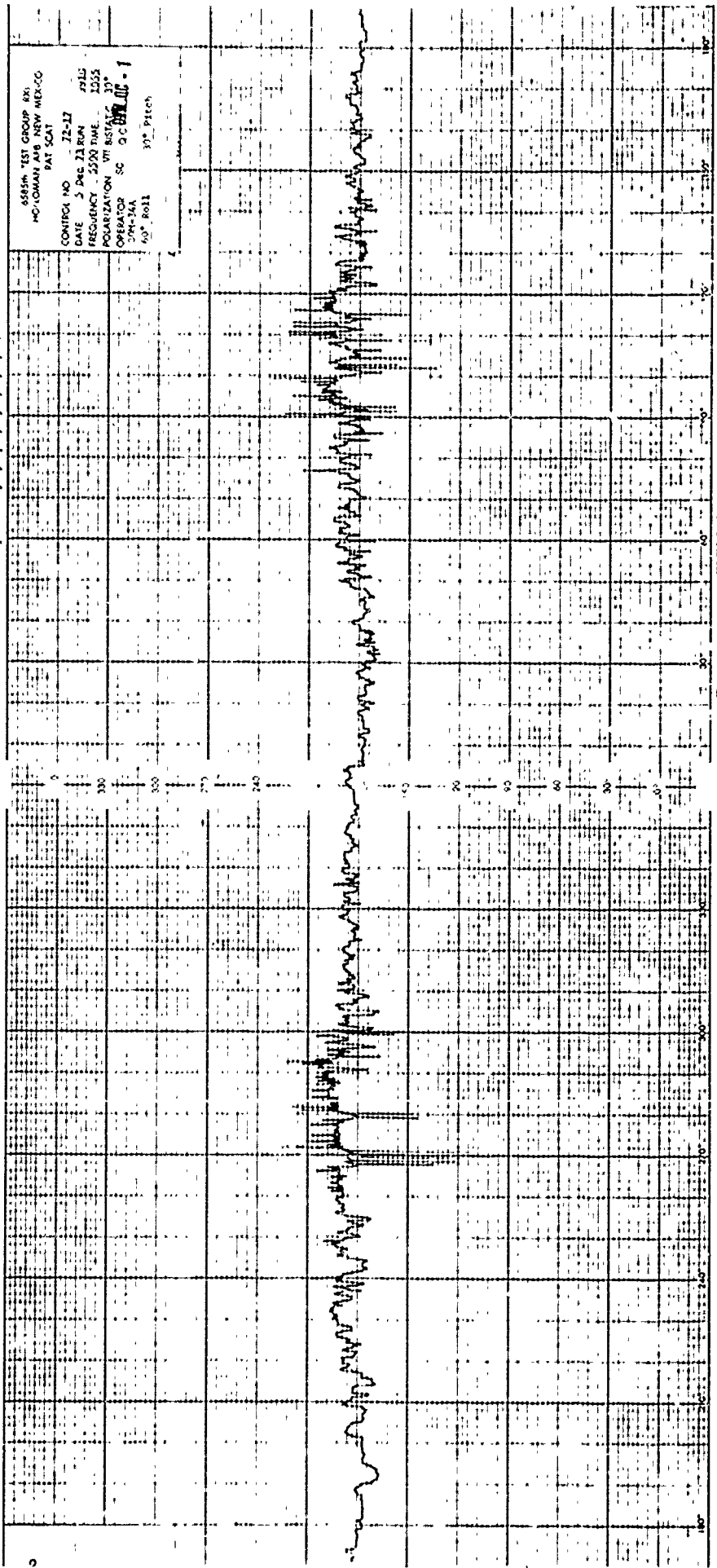
655th TEST GROUP (BQ)
HOLLAMAN AFB NEW MEXICO
BAT SCAT

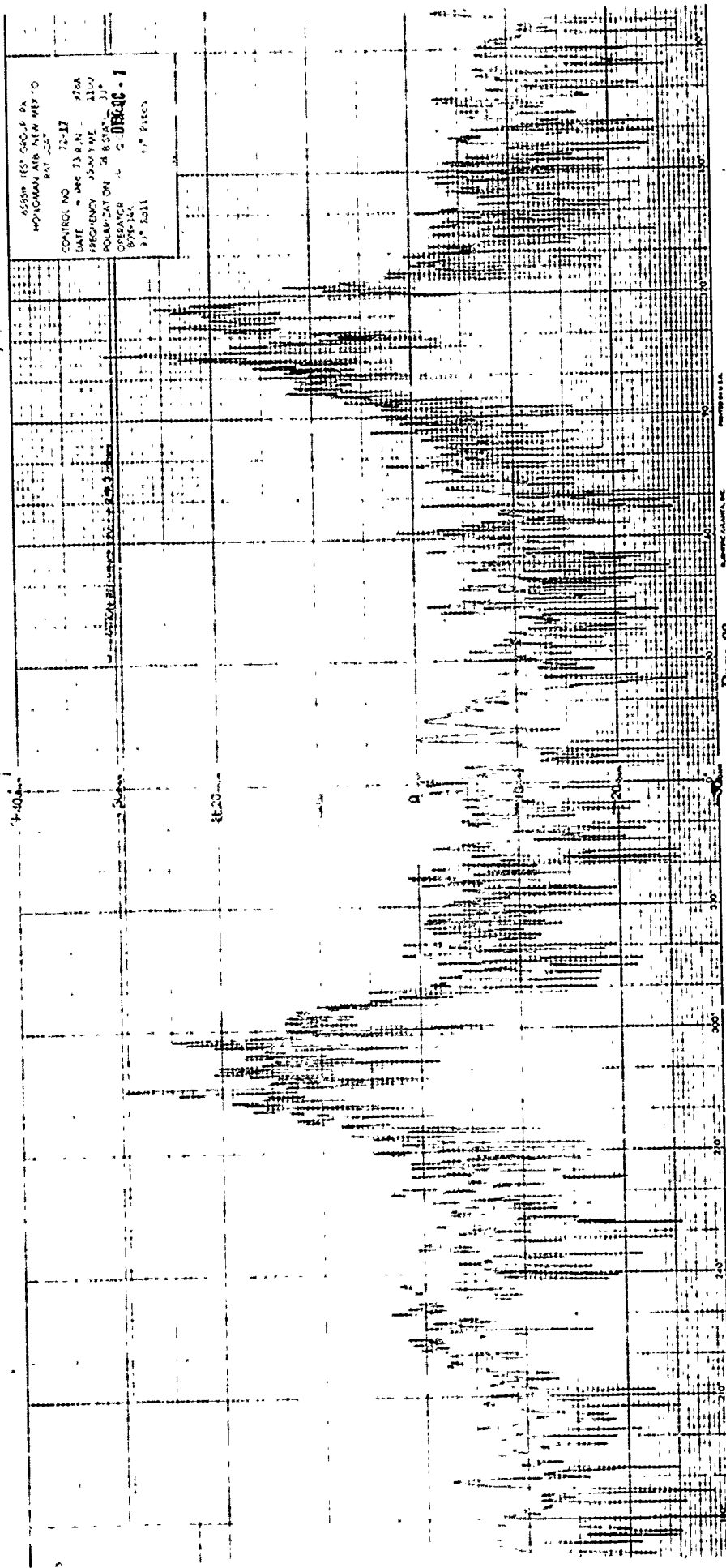
CONTROL NO. 72-17
DATE 5 Dec 73 RUN 9205
FREQUENCY 5500 MHz 1149
POLARIZATION VV ELEVATION 30°
OPERATOR S C C
10° BALL 10° PEGG



5554-103 CROU- BY
NO-TOMAN LAB NEW MEXICO
MAT SAT

CONTROL NO 72-27
DATE 2 JUL 73 RNL 121A
FREQUENCY 5000 MHz 1055
POLARIZATION VERTICAL 30°
OPERATOR G.C. 07-28-73
08-34A 30° REC 30° DEC

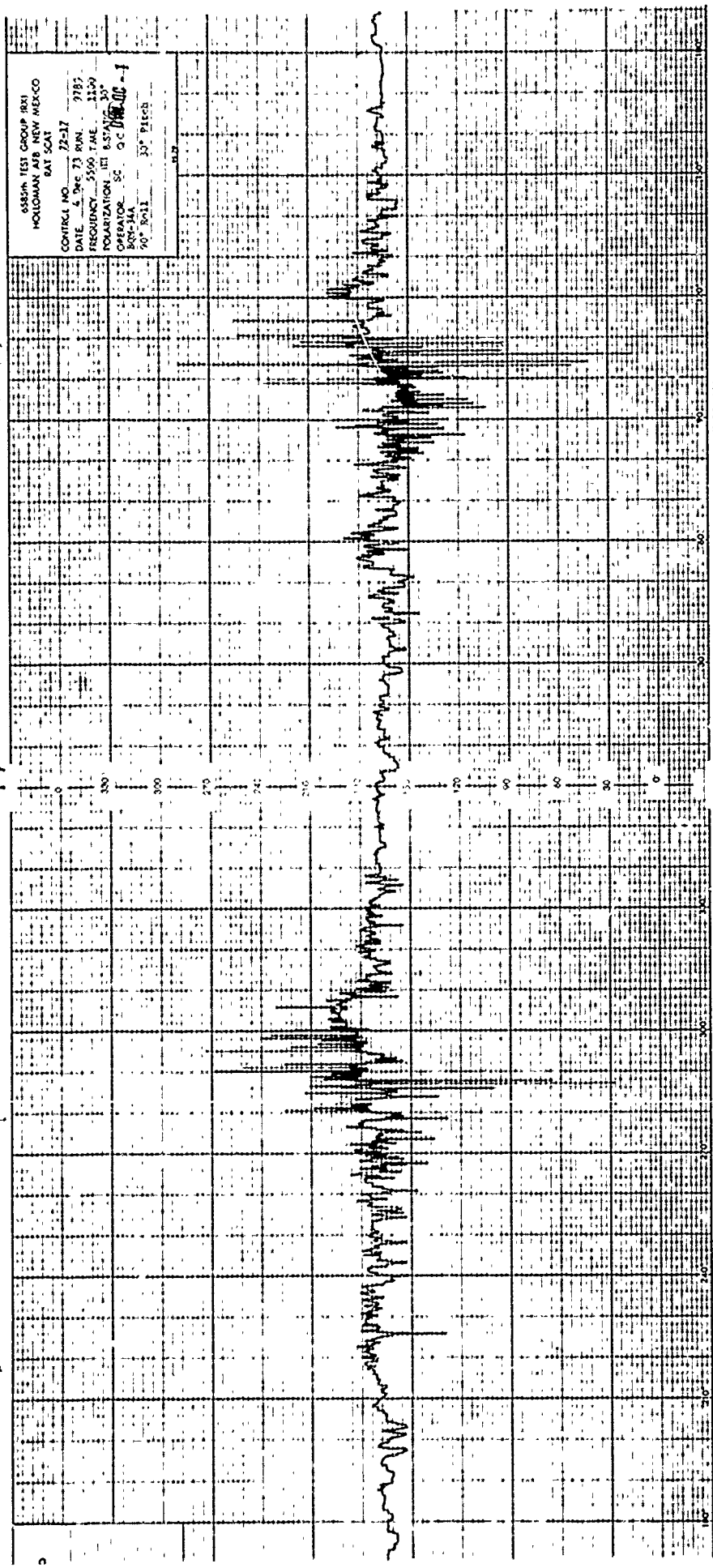




ASSOC. 151 GAO. 8 DA
MOTICMAN ATB NEW MEXICO
BAT 250
CONTROL NO 72-17
DATE 10-13-61 475A
FREQUENCY 3500 Hz 1100
POLARIZATION 24 8 Hz 1100
OPERATOR A. C. 1000-00-1
9/7/61 1100 PAGES

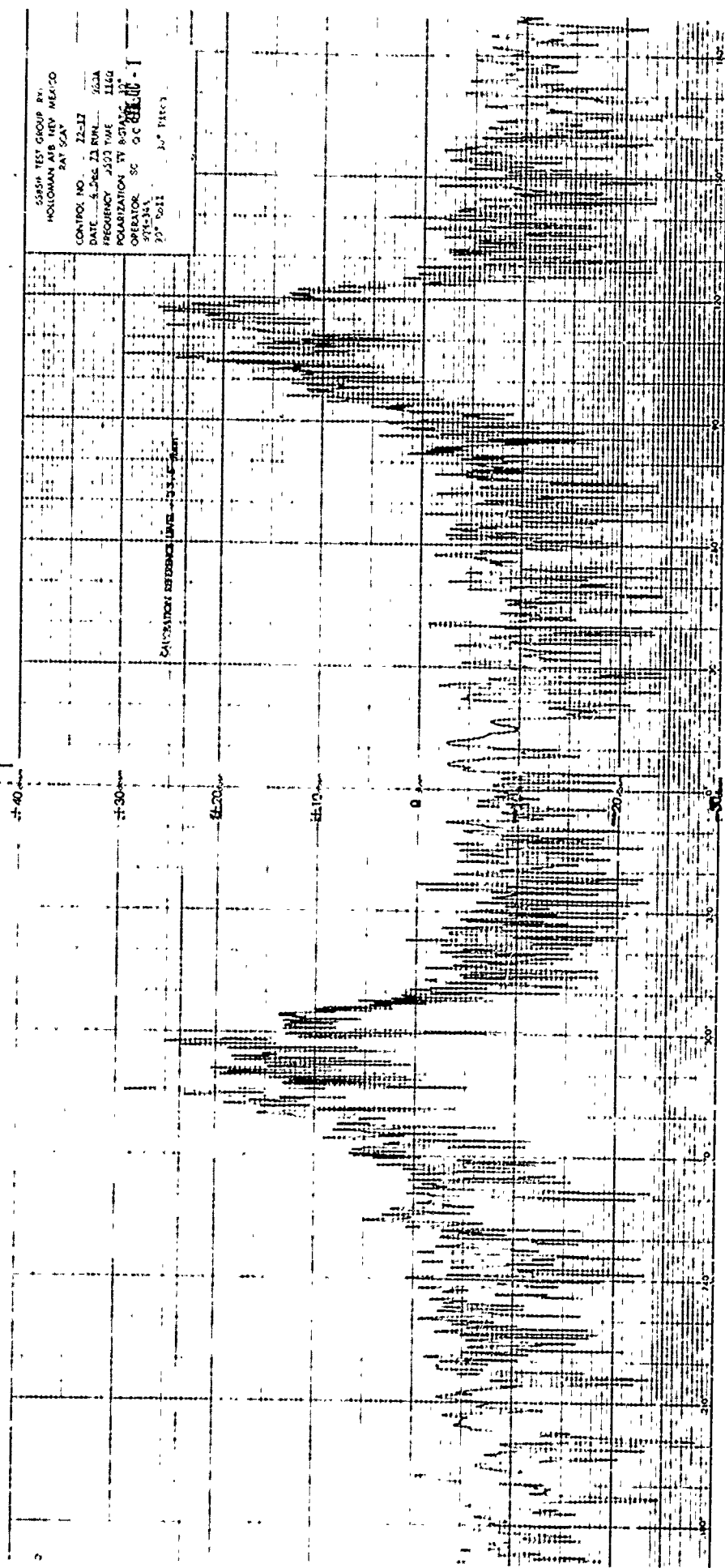
6585th TEST GROUP (RX)
HOLLOWMAN AFB NEW MEX-CO
RAY SCAT

CONTROL NO. 72-17
DATE 4 Dec 73 RUN 9785
FREQUENCY 5500 TME 2200
POLARIZATION III 8 STATE 30°
OPERATOR SC QC *W. J. C.*
BOG-14A
90° Roll 30° Pitch



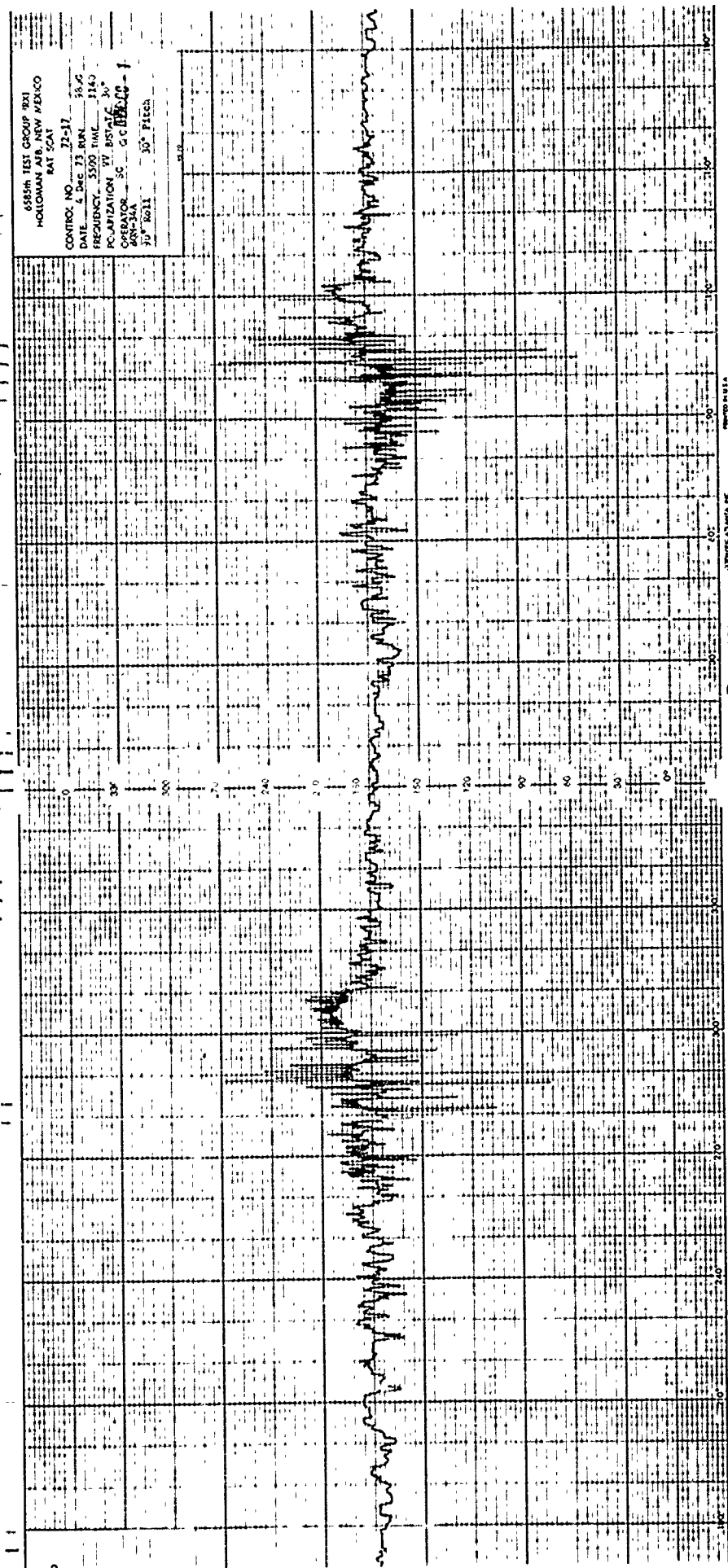
5385th TEST GROUP BY:
HOLLOMAN AIRB. NEW MEXICO
DAY 544
CONTROL NO. 12-17
DATE 4 Dec 73 RNL 163A
FREQUENCY 2000 MHz 1160
POLARIZATION TV 8-10-11
OPERATOR SC CC 21100-1
22° 00' 10" 10° 00' 00"

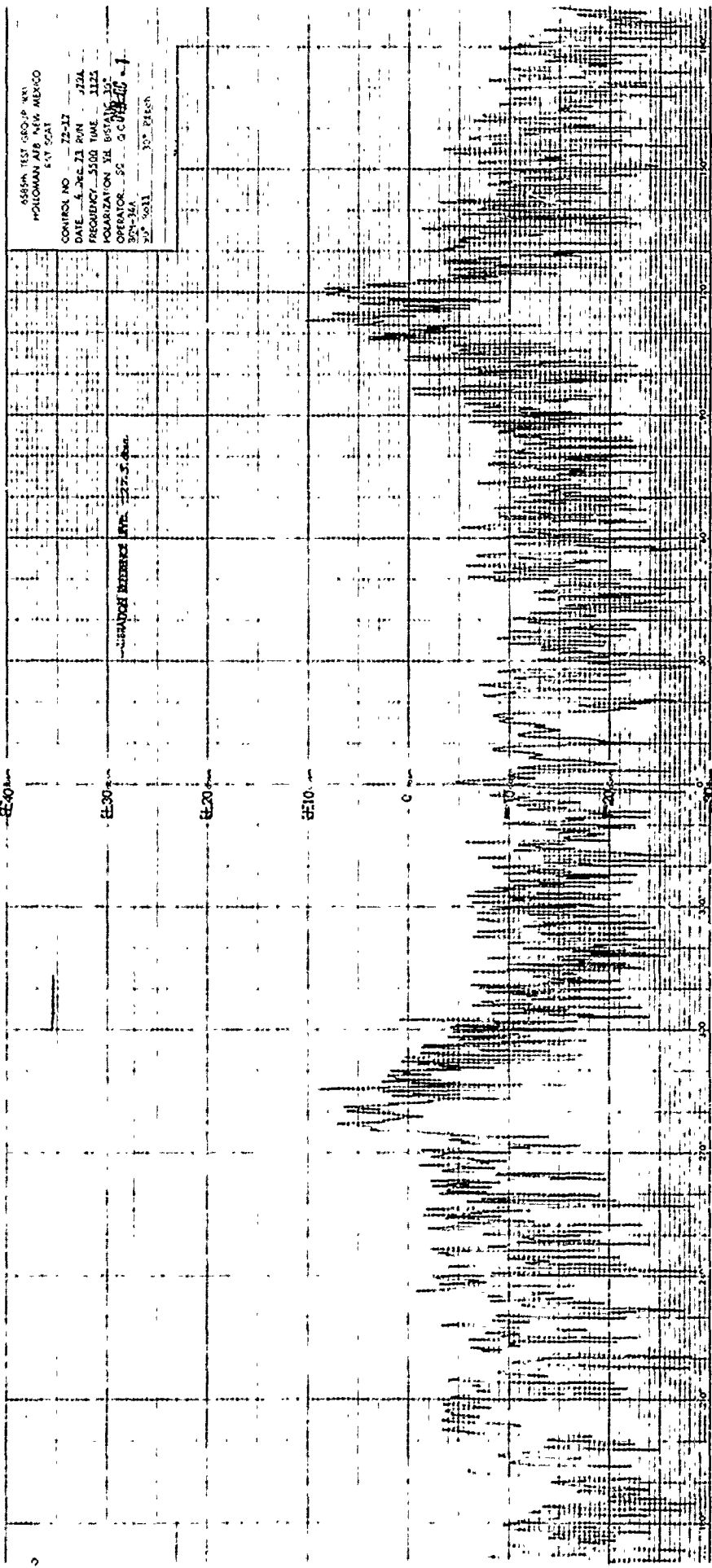
EXPERIMENT REFERENCE LINE - 23.5°C



6585th TEST GROUP (RXI)
HOLLAMAN AFB, NEW MEXICO

CONTROL NO 72-17
DATE 4 Dec 73 RUN 1800
FREQUENCY 5500 TIME 1140
POLARIZATION VV DIST-TC 30°
OPERATOR SC GC/BAK/CG
400-34A
30° Roll 30° Pitch





6585th TEST GROUP (BX)
HOLLAMAN AFB NEW MEXICO
RAT SCAT

CONTROL NO. 72-17

DATE 4 Dec 73 RUN 516

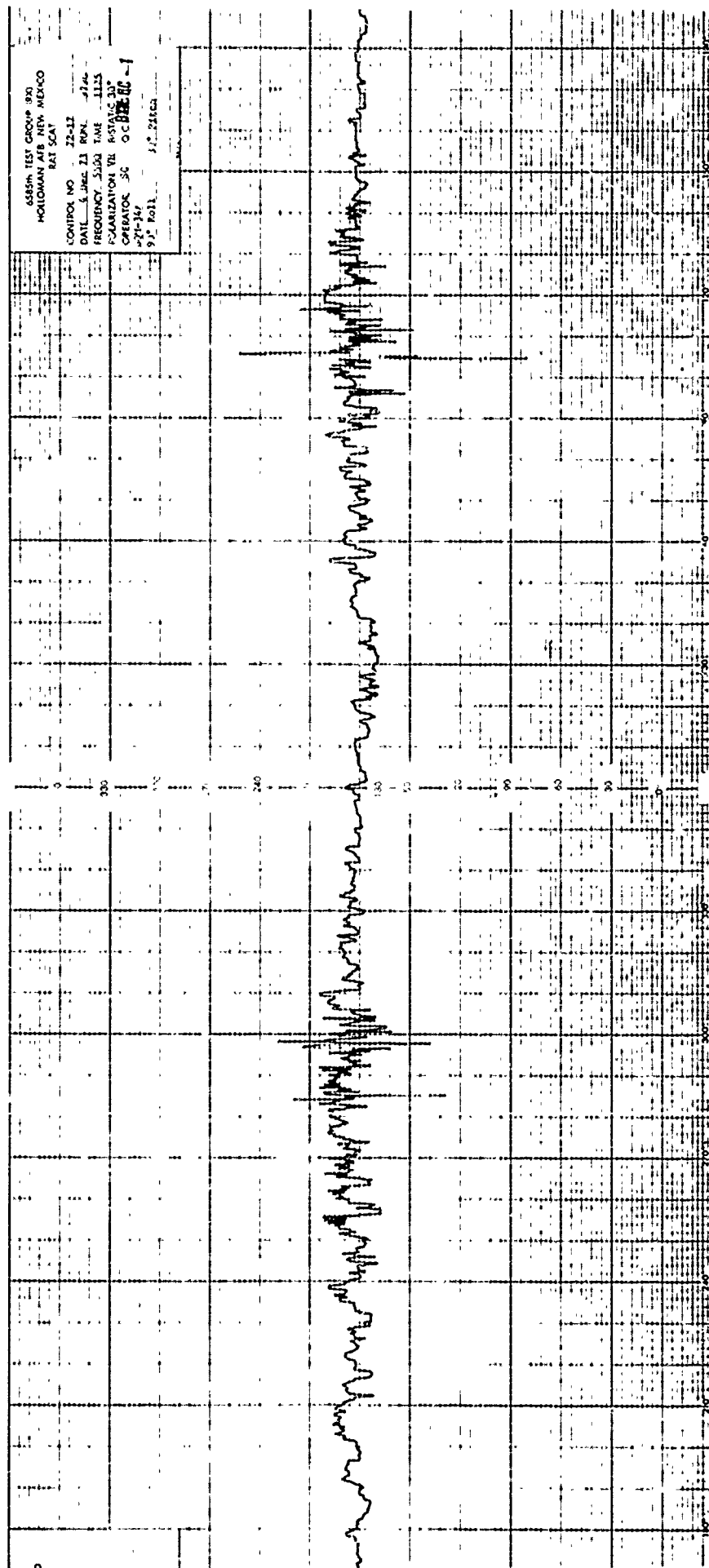
FREQUENCY: 5502 TIME: 1125

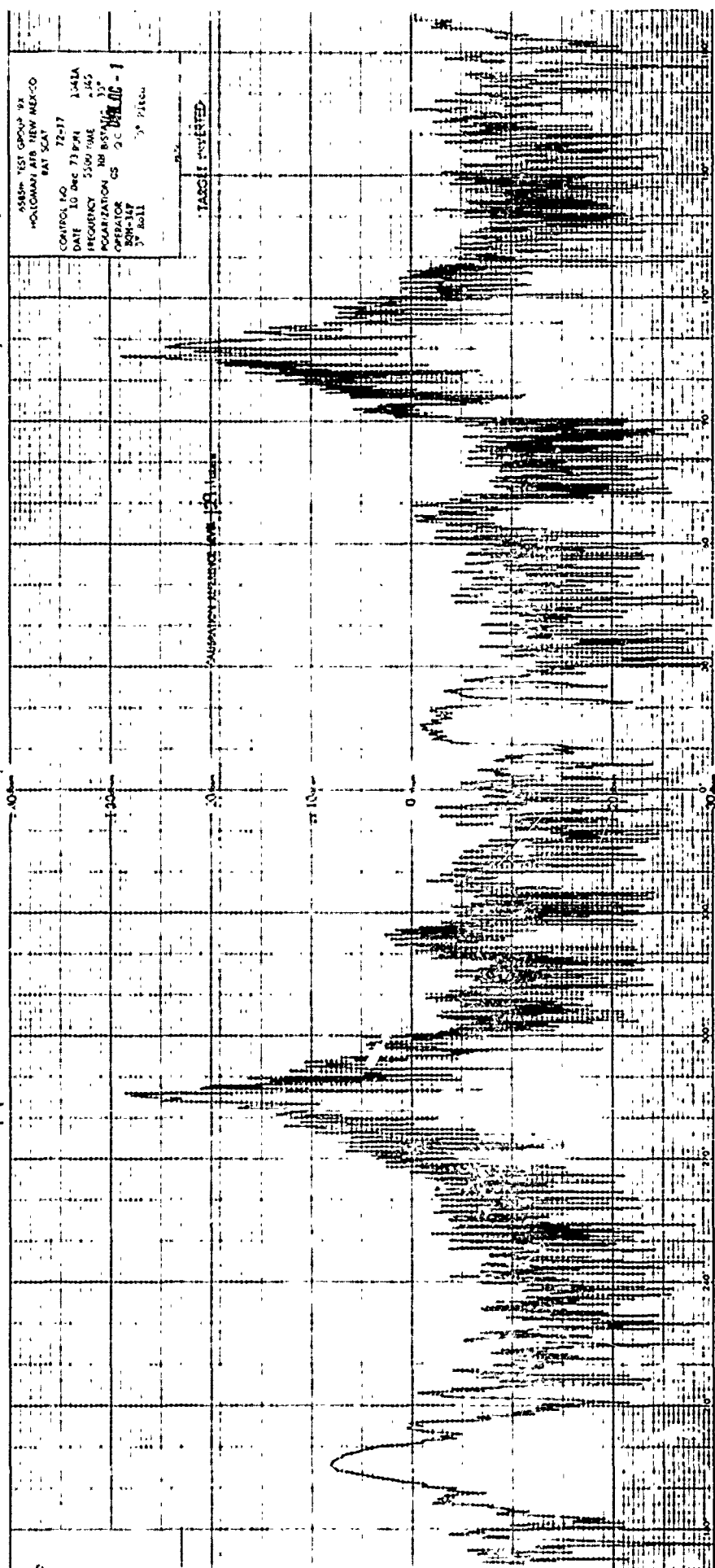
REGISTRATION YEAR R-STATIC 30°
OPERATOR SC OC BIP-RC

70-121-141

10° Roll 31° 21' 21" CA

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	-----



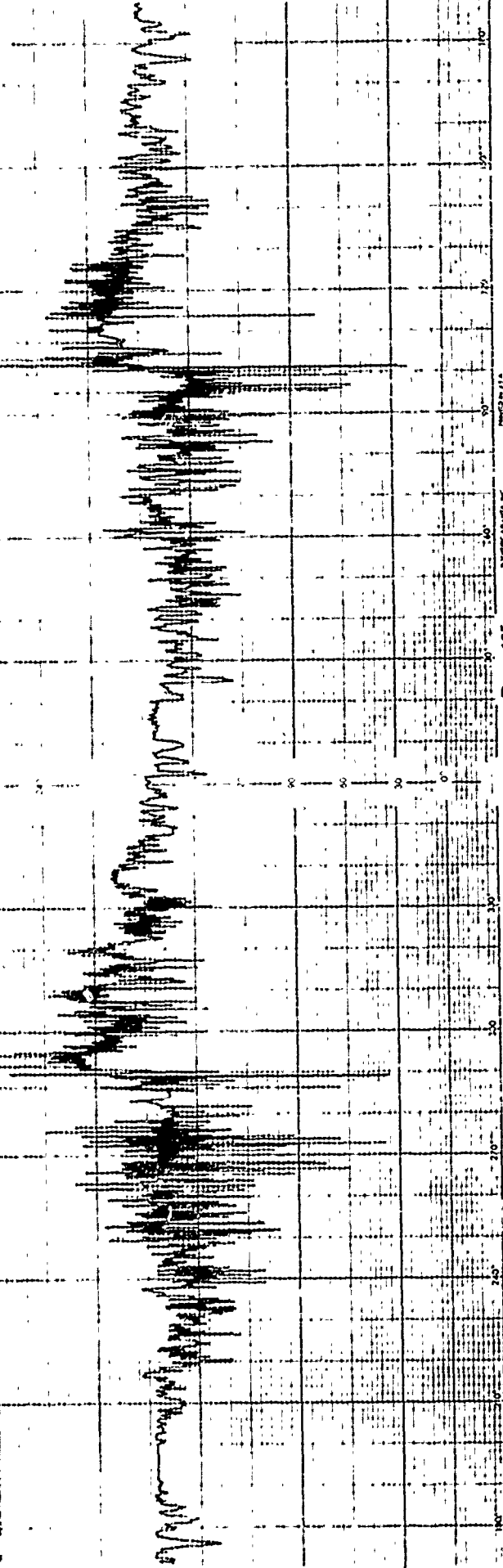


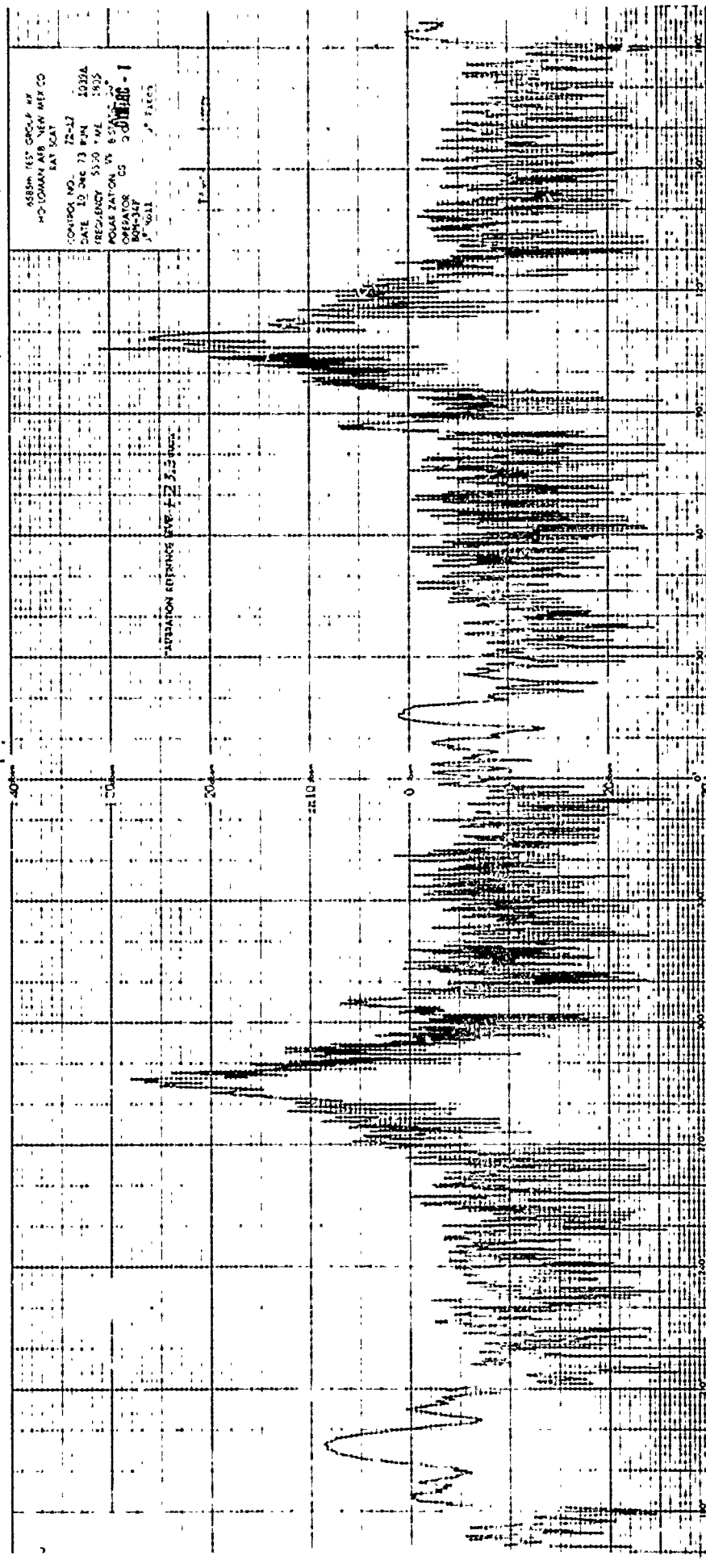
ASST. TEST GROUP 92
HOLLAND AIRB. NEW MEXICO
BAT SCAT
CONTROL NO. 72-17
DATE 10 Dec 73 P/M 1-41A
FREQUENCY 1500 MHz ±142
MODULATION 100 BPS/100 37°
ORIGINATOR 2C 0000-1
BY Ball 50 P/100

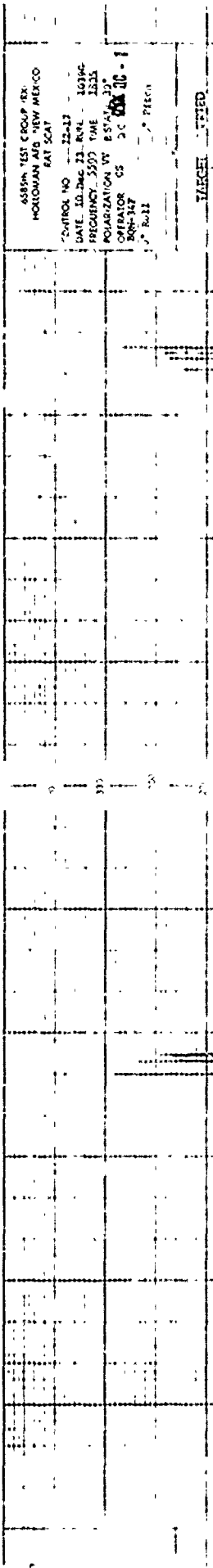
TARGET INVERTED

SLANT RANGE SCALE 100 Miles

4584th TEST GROUP (B)
 HOLLOMAN AFB NEW MEXICO
 RAT SCAT
 CONTROL NO. 22-17
 DATE 10 DEC 73 RPN 1341G
 FREQUENCY 3500 TUE 1345
 POLARIZATION INT 8.57
 OPERATOR C C
 BOM-14F
 1st Roll 5° Pitch
 TABC 1345-1350







ASSON TEST GROUP (R)
HOLLOMAN AFB, NEW MEXICO
EAT SCAT

CONTROL NO 22-43
DATE 31 MAR 73 ACVL 1019C
FREQUENCY 3575 TME 1515
POLARIZATION VV ESTD 130
OPERATOR GS DC 60A 30-1
280-147
Roll
PITCH

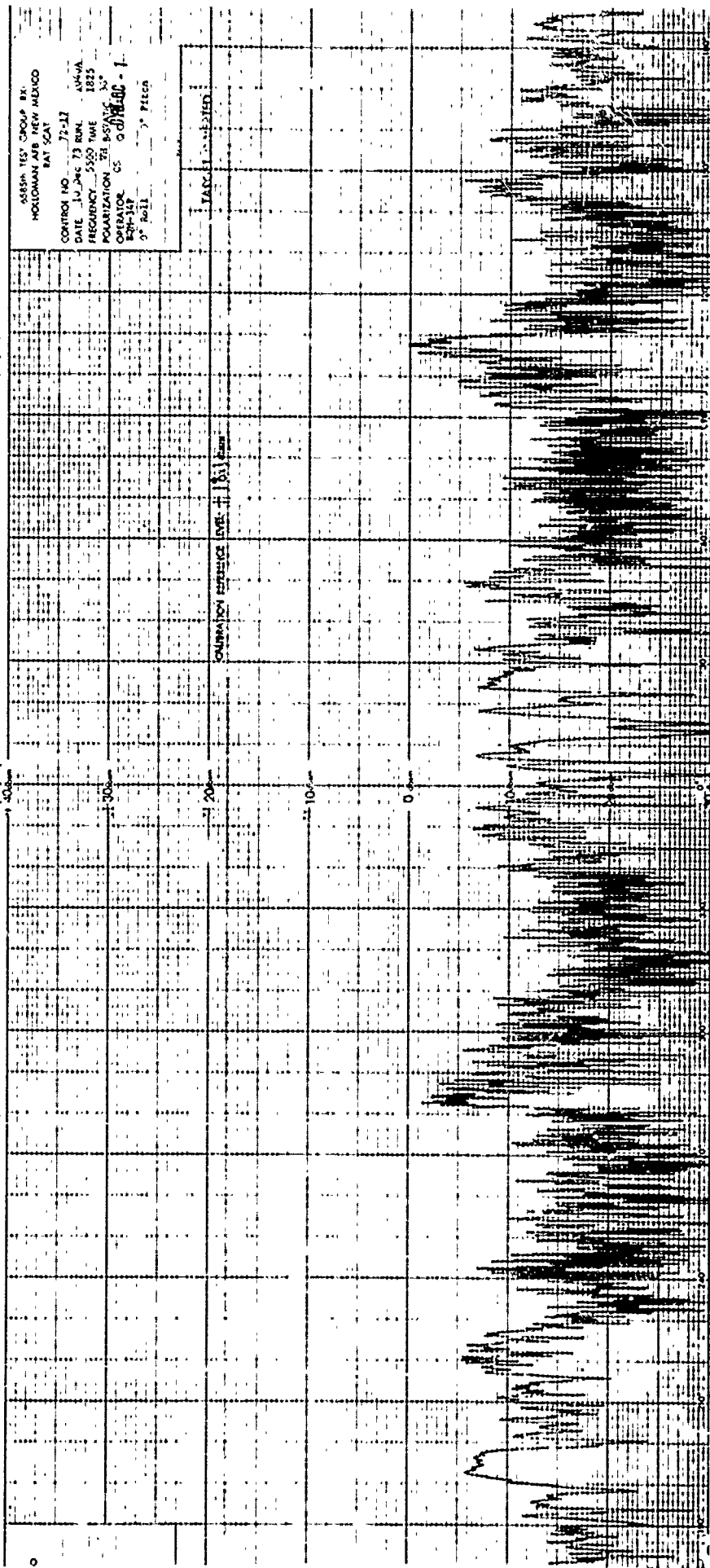
TAKE 1

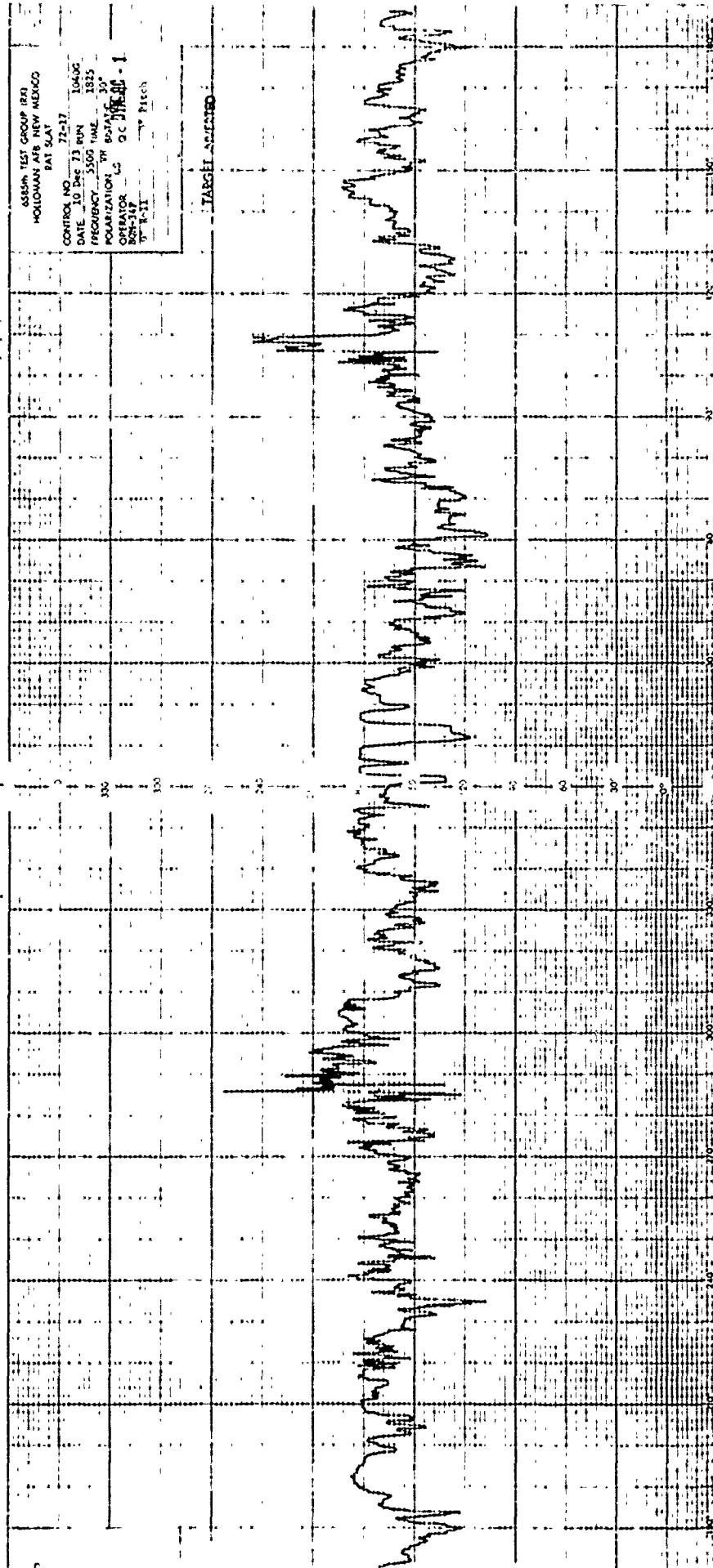
ASSH TEST GROUP BK
HOLLOMAN AFB NEW MEXICO
BAT SCAT

CONTROL NO. 72-12
DATE 14-JUN-73 RUM AMVA
FREQUENCY 5500 THRE 1825
POLARIZATION TH 85/130 N
CHANNEL CS 001800-1
0" Ball 3" Piece

TARGET IDENTIFIED

COUNTDOWN REFERENCE LEVEL: 11831 dBm





CONTROL NO. 72-17
DATE 10 Dec 73 RUN 2042A
FREQUENCY 5500 KHZ 5005
POLARIZATION 195 857.33°
OPERATOR CS OC
BOM-347
10° 2011 9° 4105

संस्कृत-संज्ञा

Page 110

355th TEST GROUP (R3)
HOLLOMAN AFB, NEW MEXICO
BAT SCAT

CONTROL NO. 72-12

DATE 10 Dec 71 RPT 10422

FREQUENCY 5500 MHz 2403

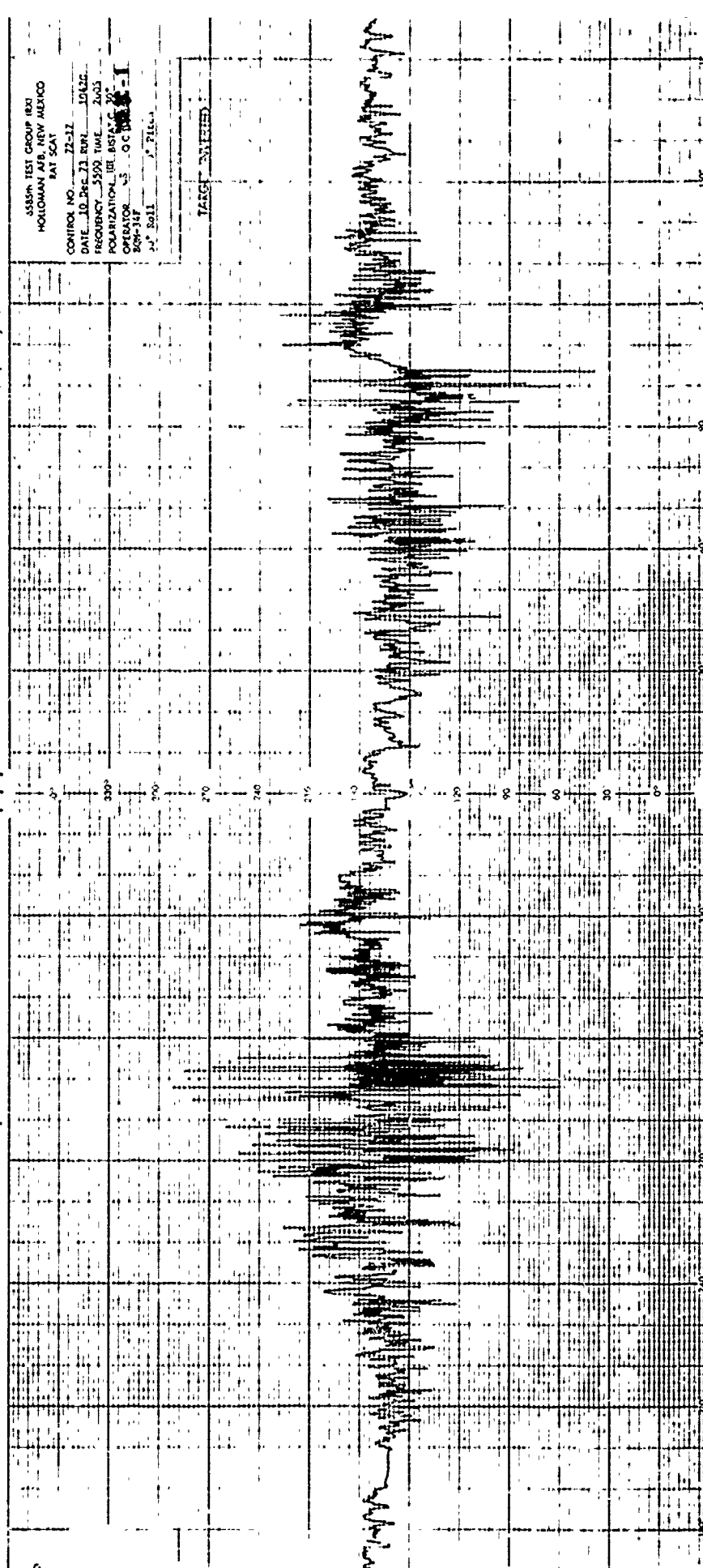
POLARIZATION RH 85% 30°

ORBITAL 5 OC 1000

ALT 5000

7110

TARGET NUMBER

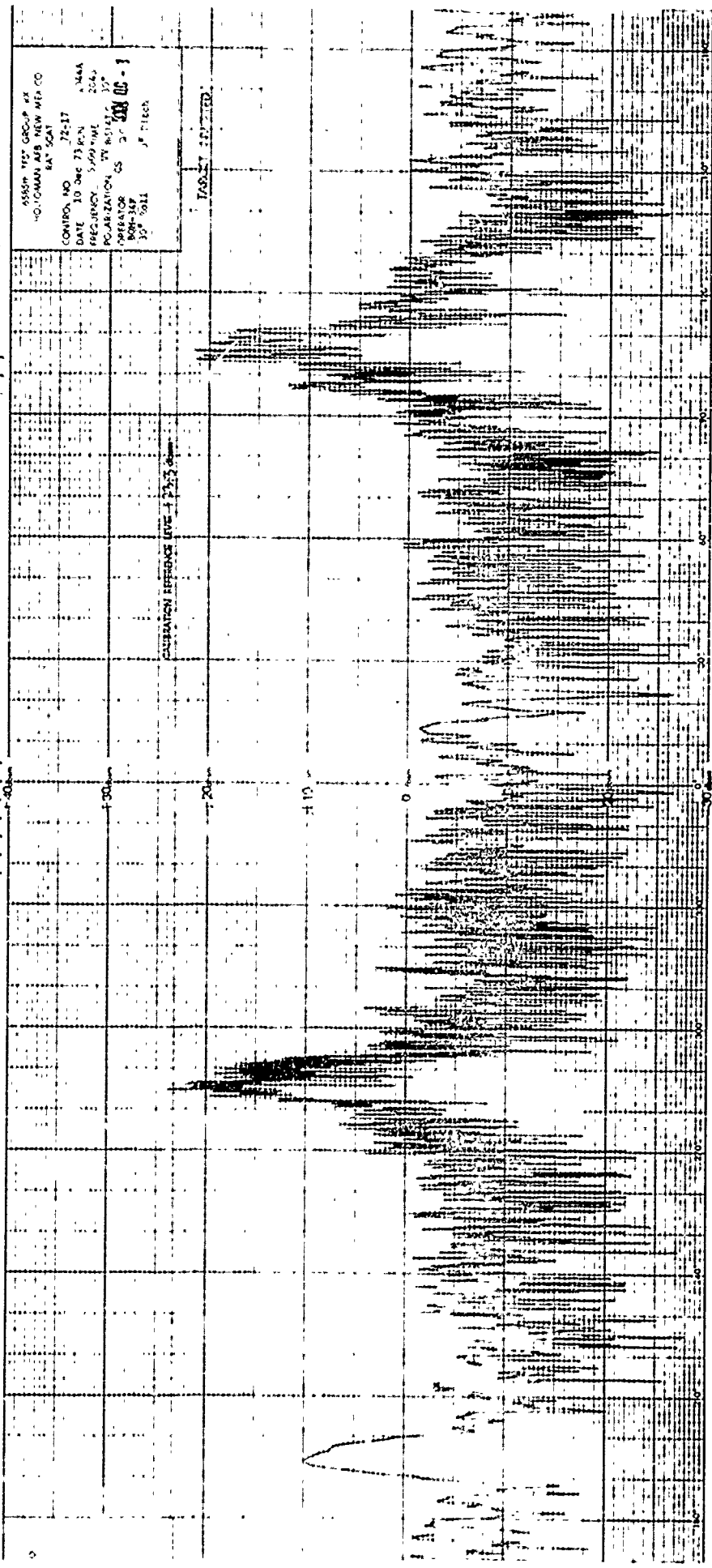


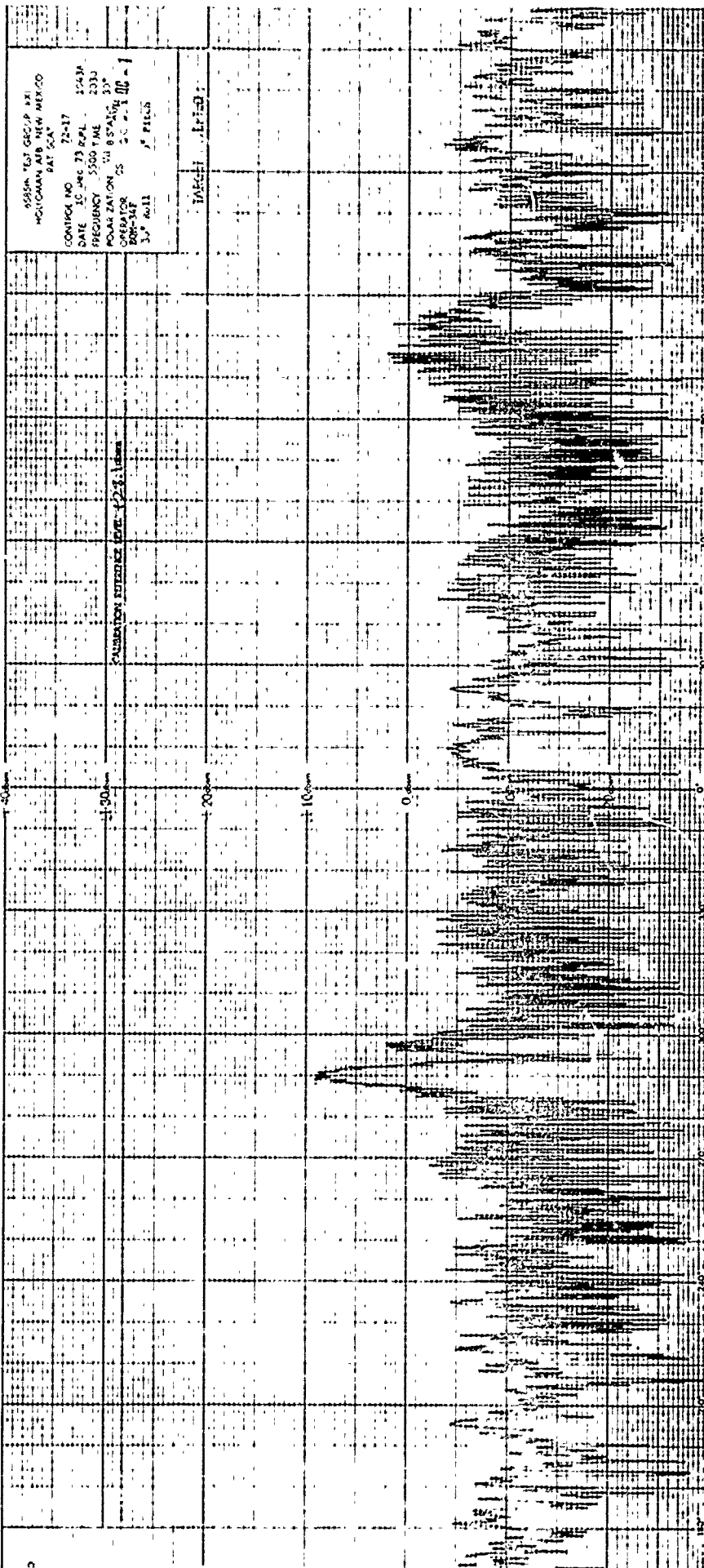
ASSON TEST GROUP #2
HOLCOMB AIR NEW MEX CO
EAT SCAT

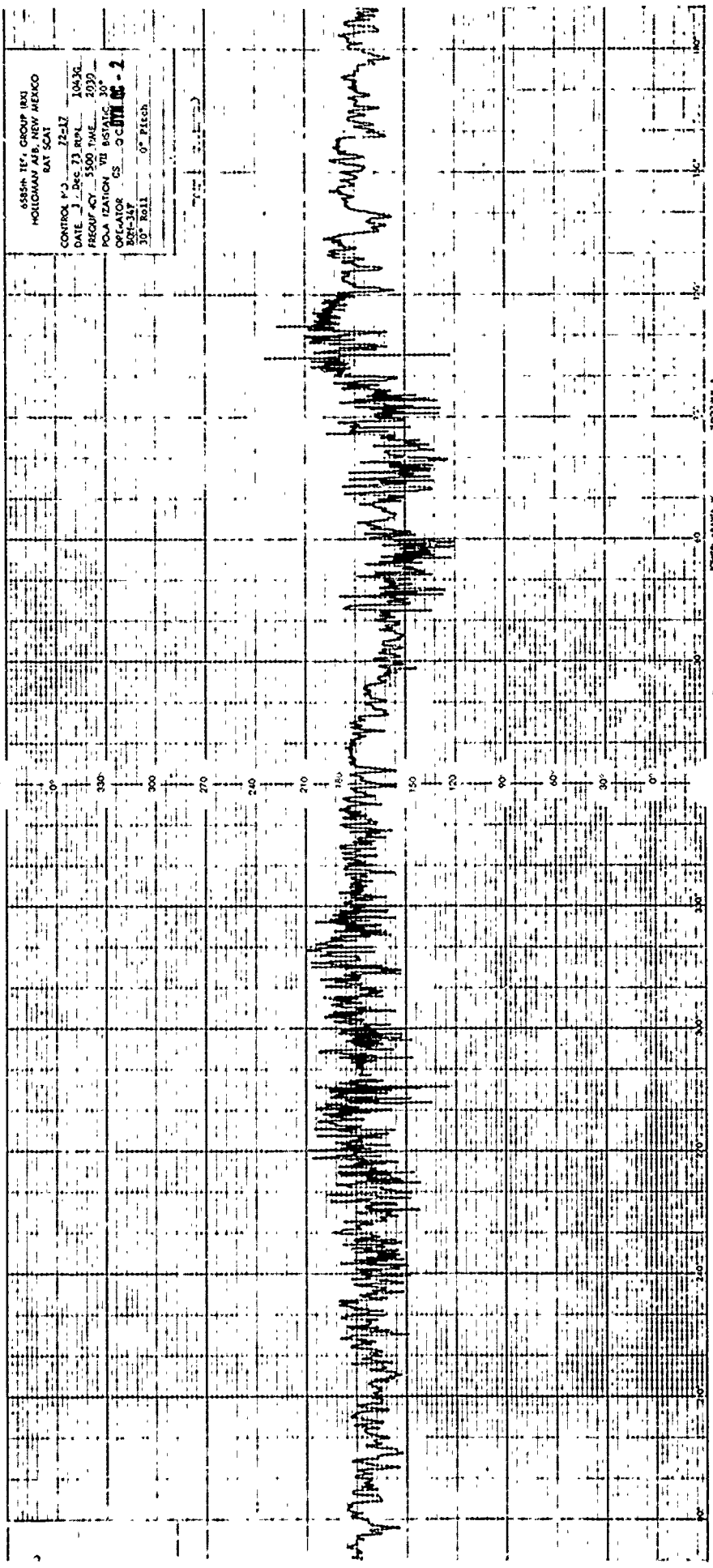
CONTROL NO 72-17
DATE 10 Dec 73
FREQUENCY 5400 MHz
MODULATION 100%
OPERATOR CS
808-147
30° 1011

CALIBRATION REFERENCE LINE + 1.5% 808-147

7400-27 100-100

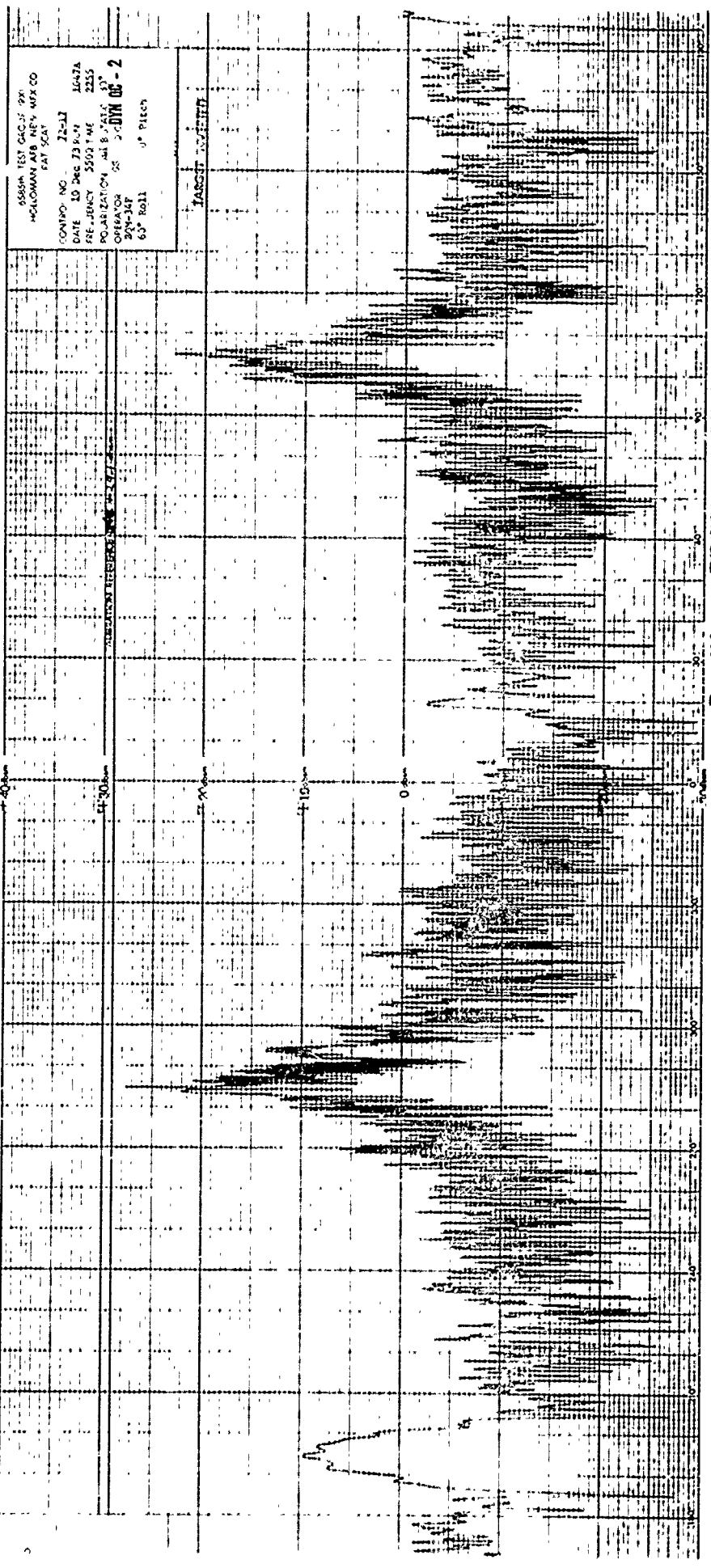






6884-17, GROUP INI
HOLDMAN AFS, NEW MEXICO
SAT SAT

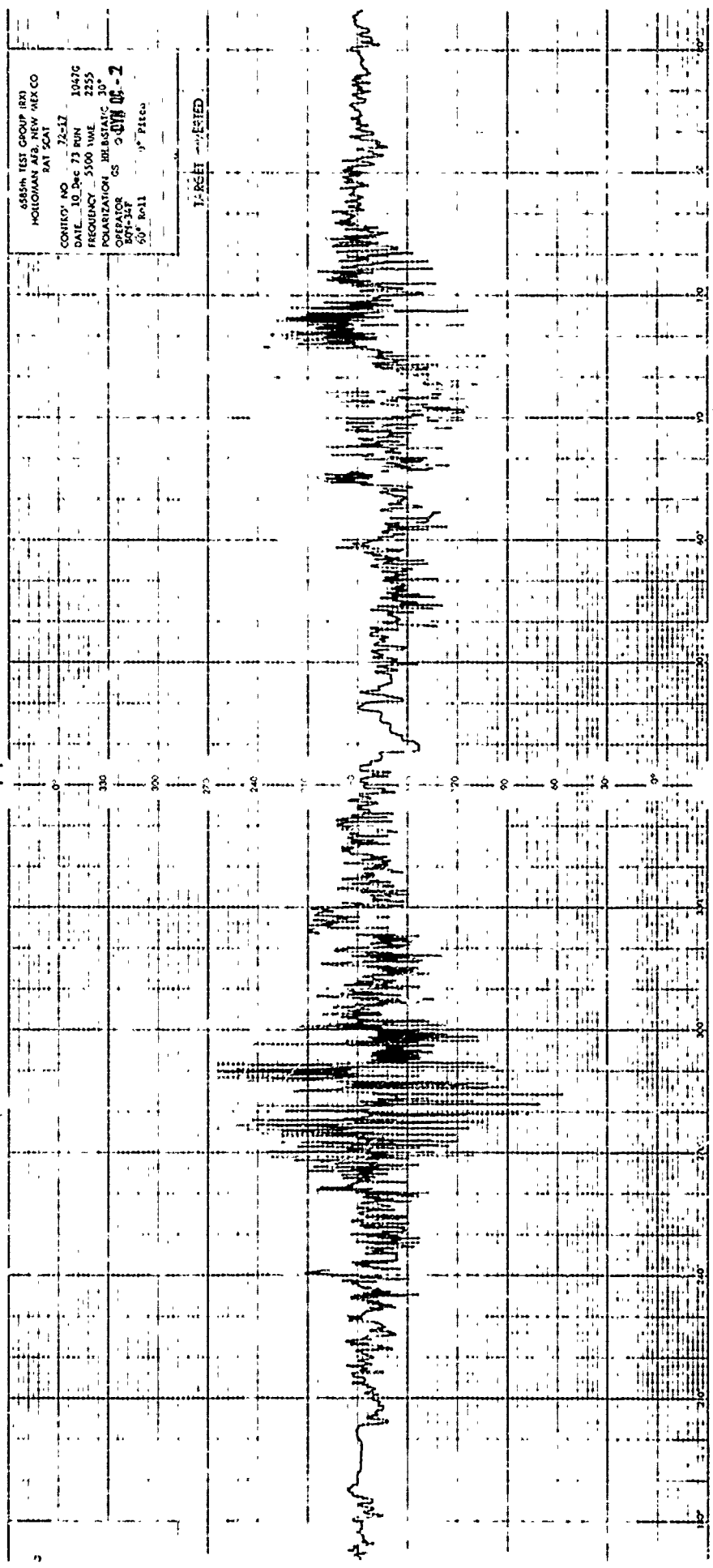
CONTROL F3 12-17 1045G
DATE 3 Dec 73 RPL 2030
FREQUENCY 5500 TIME 30
POLARIZATION VERTICAL
OPERATOR CS OCT 15-2
204-347
30° Roll 0° Pitch

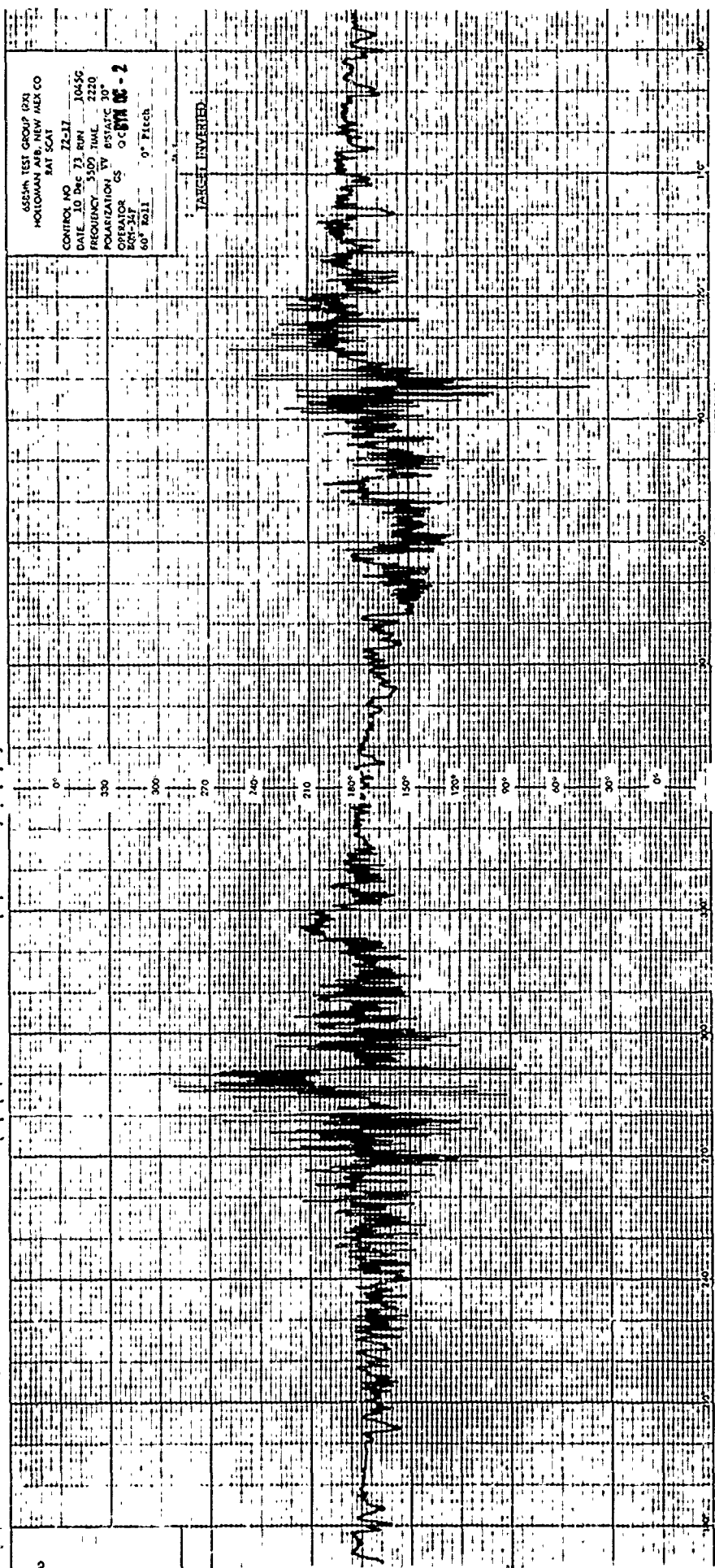


5555H TEST GAC-37 291
HOLCOMB AFB NEW, MEX CO
EAT SCAT

CONTR NO 22-12 1647A
DATE 10 Dec 73 8:41
FREQUENCY 5500 Hz 2255
POLARIZATION 45° 2515 13°
ONSET 20-10-73 22-00-00-2
30-1-10 0° Pitch
60° Roll

TARGET RECORD





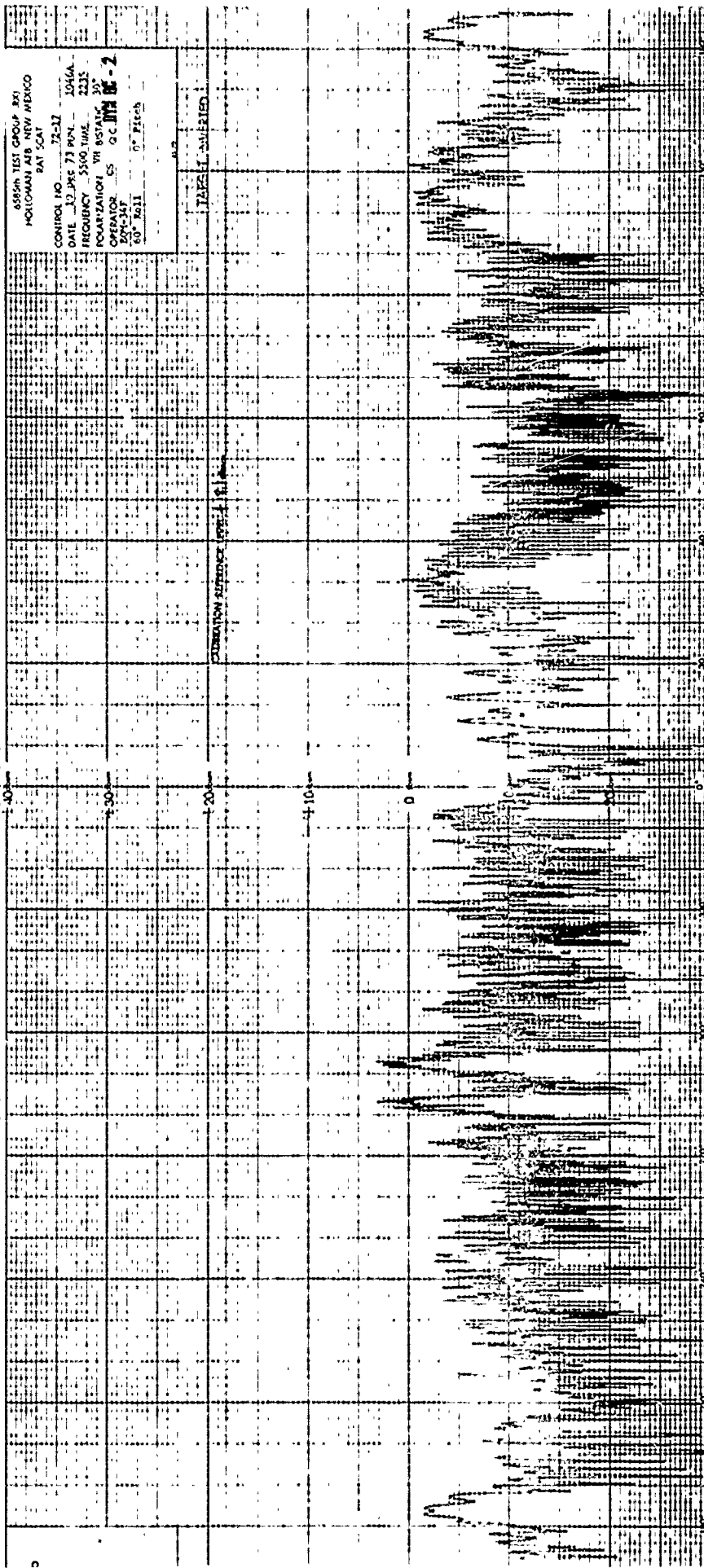
ASCHM TEST GROUP (23)
HOLLOMAN AFB, NEW MEX CO
BAT SCAT

CONTROL NO 72-37
DATE 10 Dec 73 RUN 1045G
FREQUENCY 5500 MHz 2210
POLARIZATION TV ESYAFC 10
OPERATOR GS OC 5TH GS - 2
60° 241 9° Pitch

TARGET INVERTED

6554R TEST GROUP BXJ
 HOLLOMAN AFB NEW MEXICO
 BAT SCAT
 CONTROL NO. 72-217
 DATE 10 JUNE 73 RPN 1046A
 FREQUENCY 5500 TUNE 2235
 POLARIZATION VR STATIC 30°
 OBSERVER CS
 274-147
 60° Roll 0° Pitch

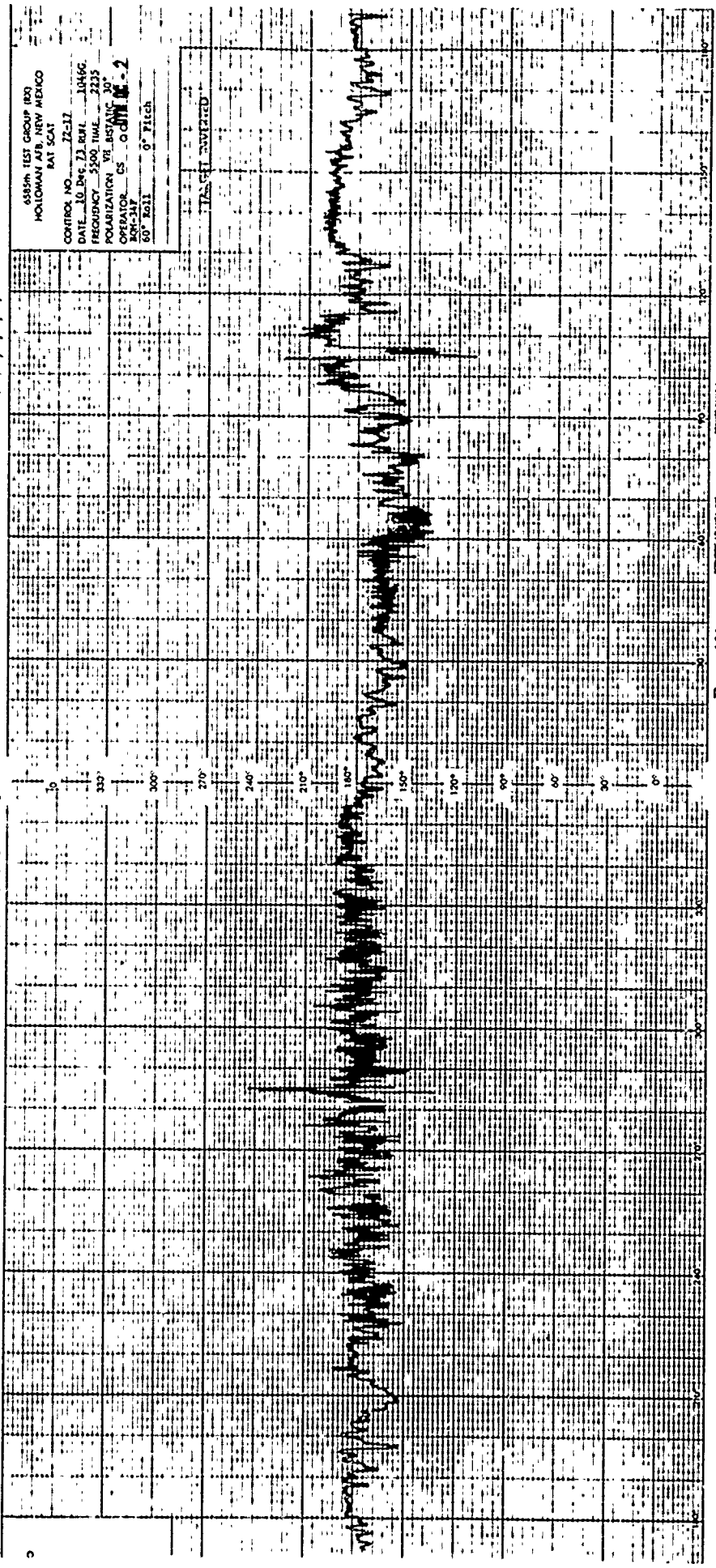
TAPER 11 - UNFILTERED



ASSIGN TEST GROUP (B)
HOLLOWAY AIR NEW MEXICO
BAT SCAT

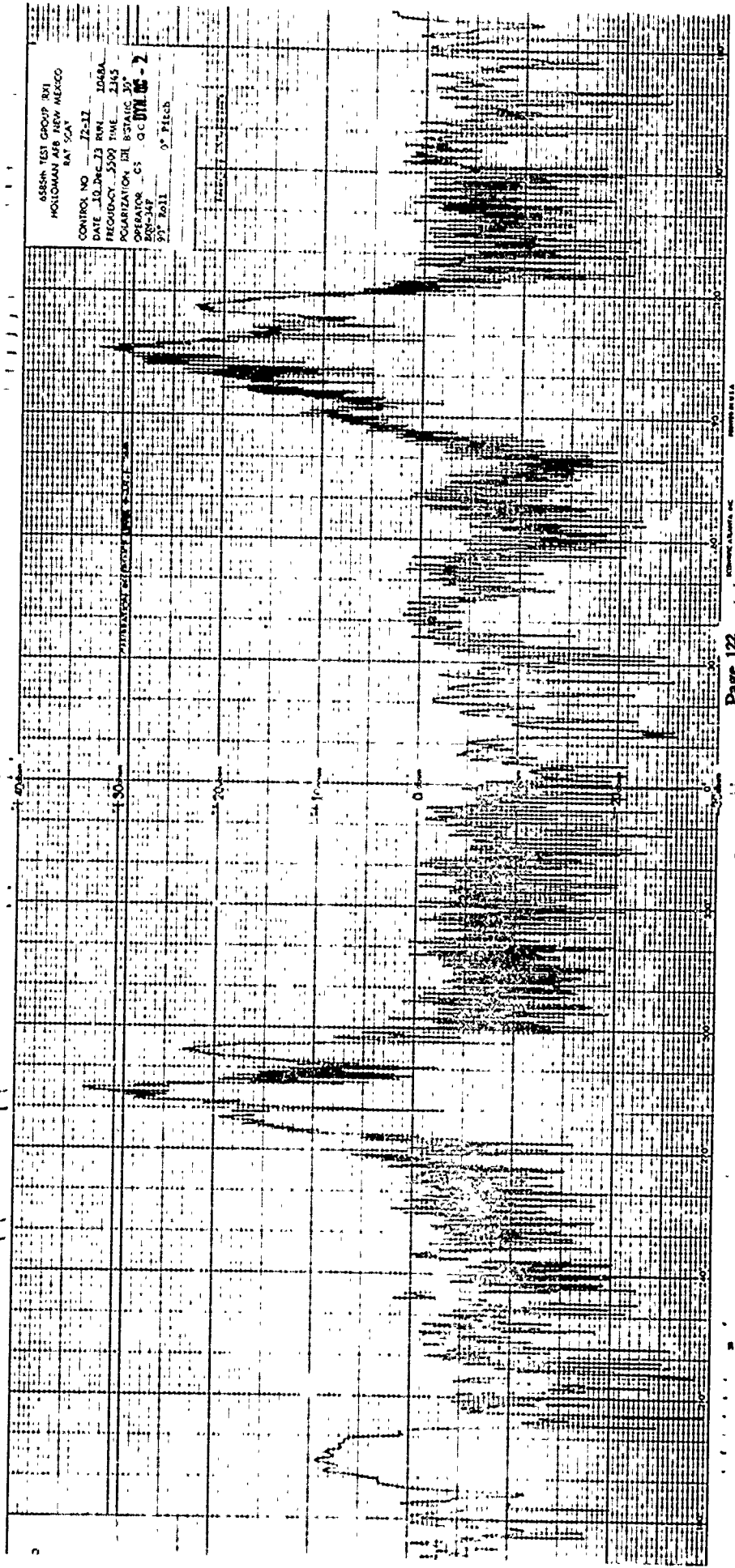
CONTROL NO. 12-17
DATE 10 DEC 72 RUL 10466
FREQUENCY 5500 TUE 2235
POLARIZATION VE BISTATIC 30°
OPERATOR CS O
240-547
60° Roll 0° Pitch

TAUGHT TAUGHT



ASSEMBLY TEST GROUP 871
HOLLOMAN AIR FIRM MEXICO
BAT 547

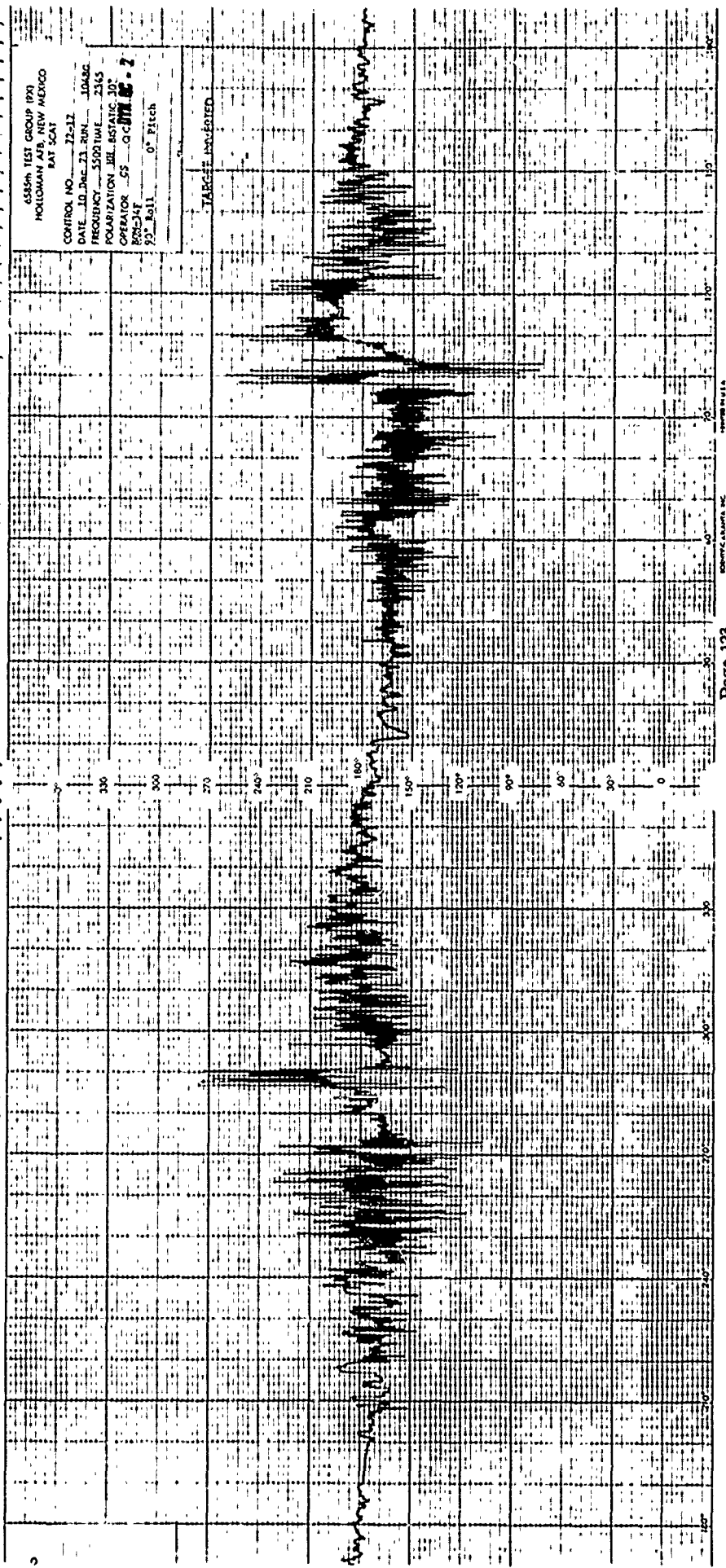
CONTROL NO 72-17
DATE 10 MAR 73 RUN IDABA
FREQUENCY 5599 HZ 2145
POLARIZATION 181 BTAG 37
OPERATOR CS G C
REMARKS
90° Roll 0° Pitch



6554th TEST GROUP (P)
HOLLAND AFB, NEW MEXICO
BAT SCAT

CONTROL NO. 72-12
DATE 10 Dec 73 RUN 10482
FREQUENCY 5500 MHz 2365
POLARIZATION IRL BISTATIC 30°
OPERATOR GS G.C. **WILSON**
RSC-34F 92° Roll 0° Pitch

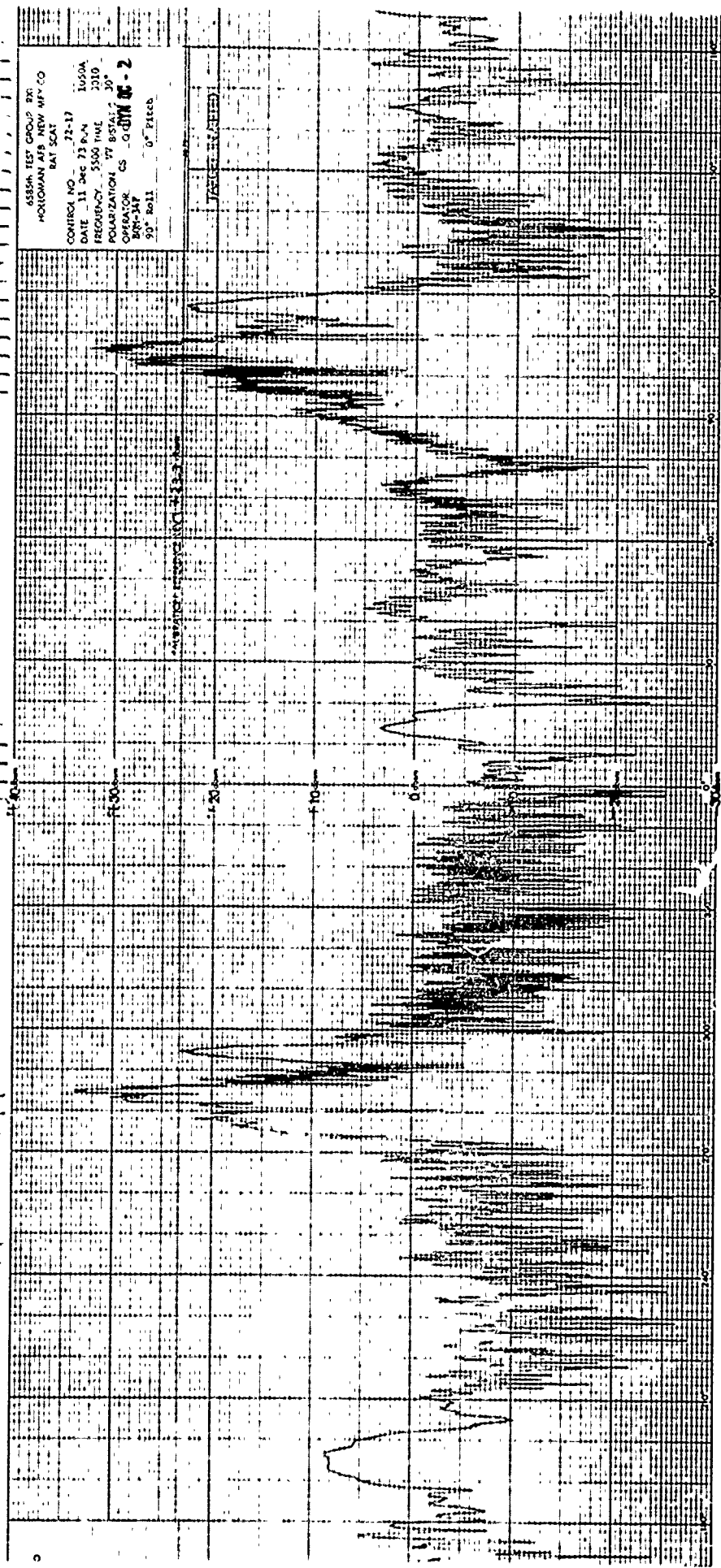
TARGET IDENTIFIED



6550A TEST GROUP 7K
 HOKOMAN AFS NEW MPY CO
 EAT SCAT

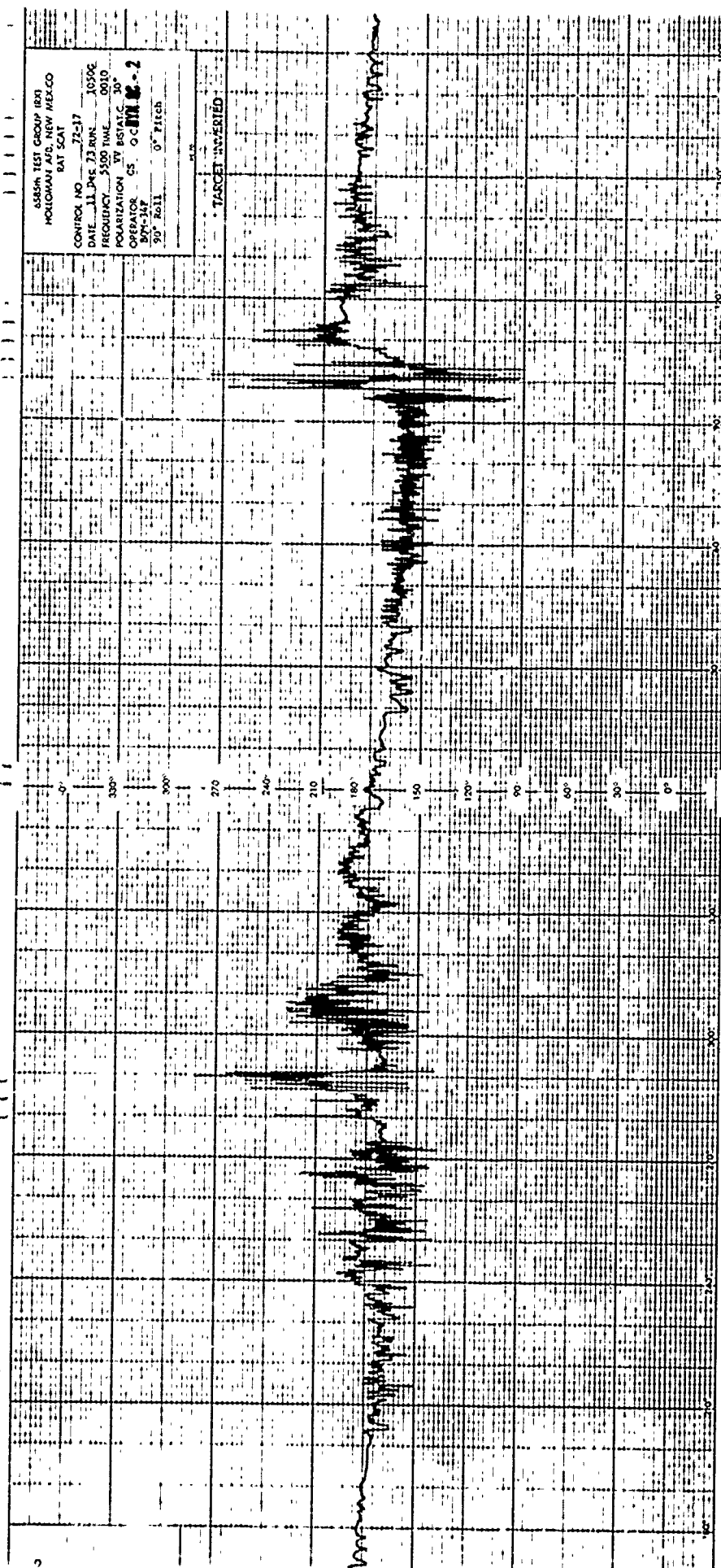
CONTROL NO - 72-17
 DATE - 11 Dec 73 P.M. 1050A
 FREQUENCY - 5500 MHz
 POLARIZATION - 17° BTAT, 30°
 OPERATOR - CS - O.D.M. AC-2
 BRN-317
 90° Roll 0° Pitch

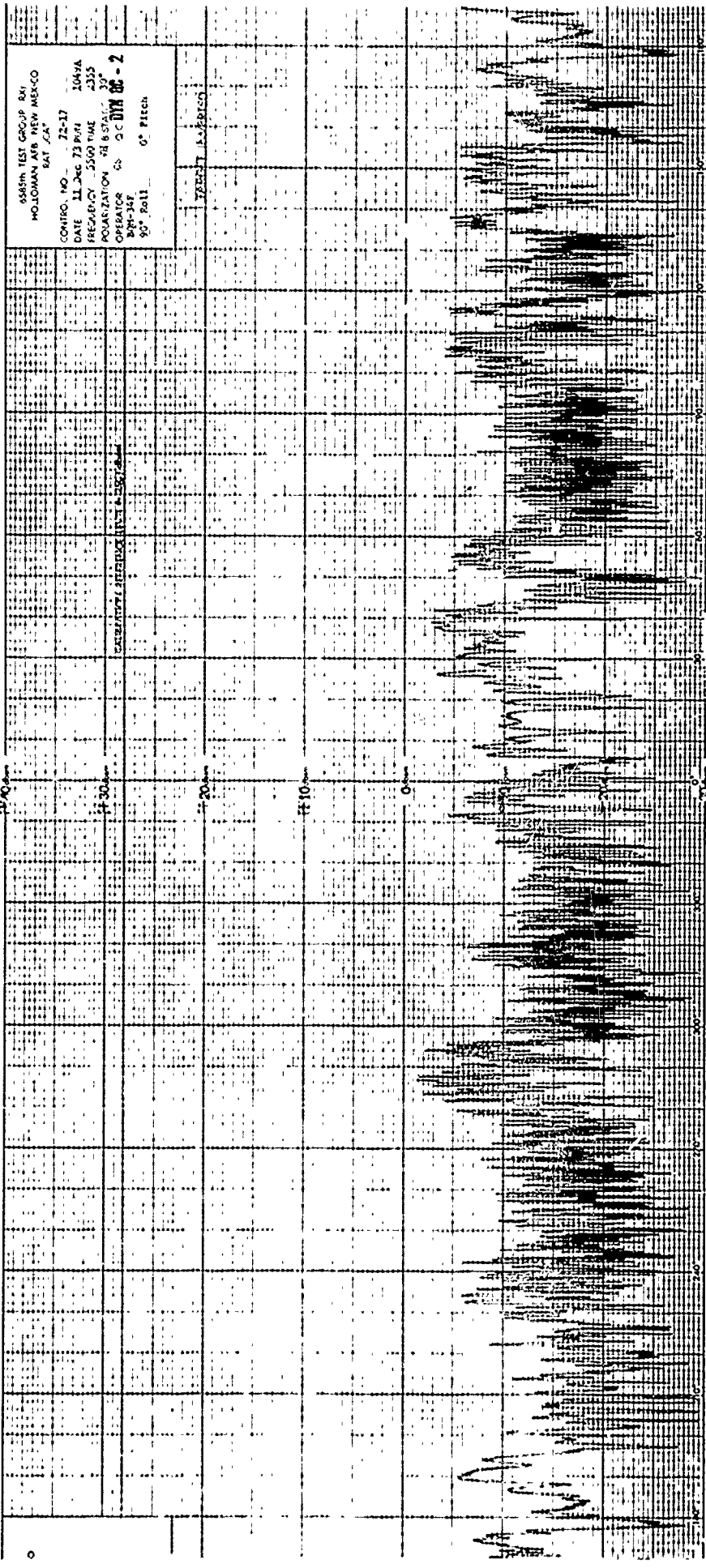
TARGET IDENTIFIED



CONTROL NO. 72-17
DATE 11 Dec 73 RUN 1050G
FREQUENCY 5500 TIME 0010
POLARIZATION VV DIST. 30°
OPERATOR CS O C 1111 2-2
DPT-147
90° Roll 0° Pitch

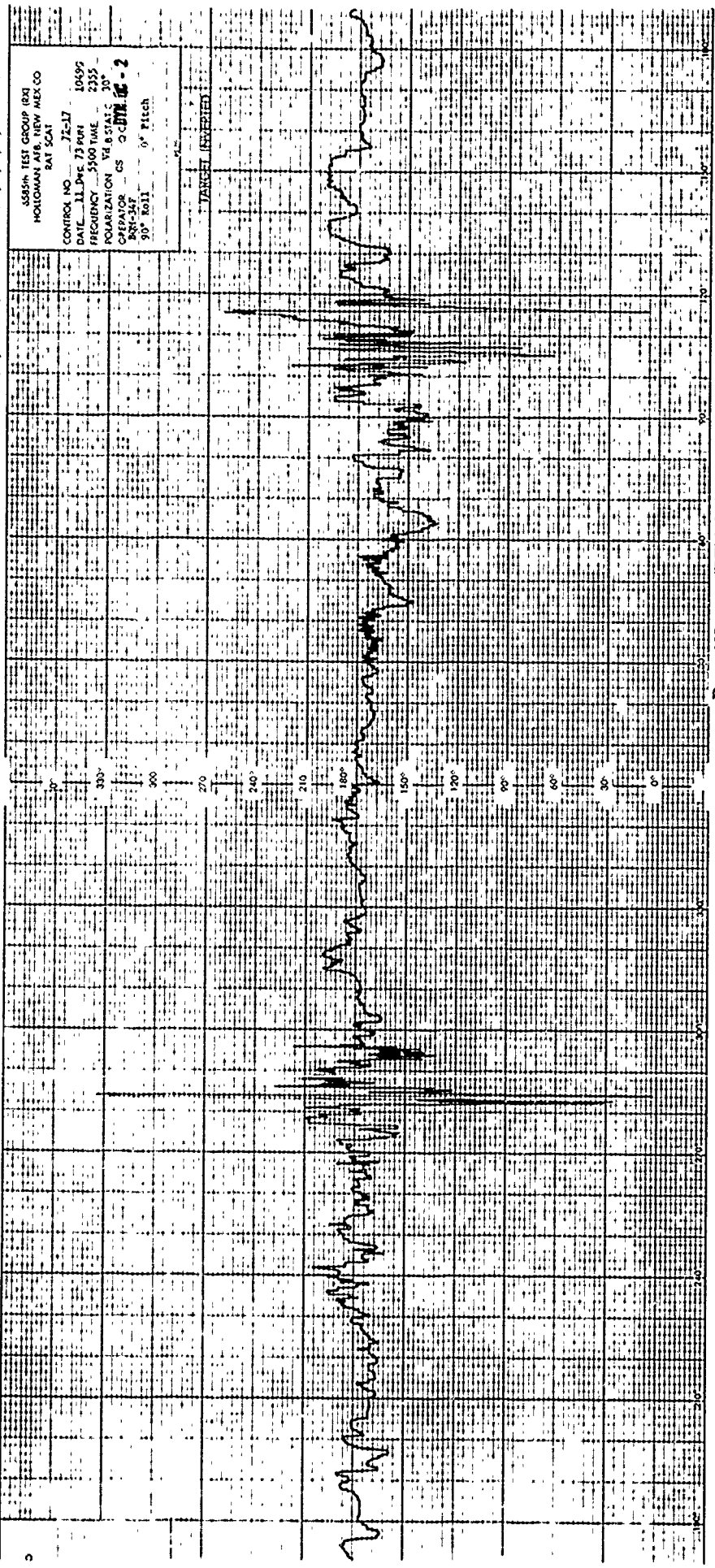
TARGET MARKET





555TH TEST GROUP BAY
MOJAVE AFB NEW MEXICO
DATE 11 DEC 73
TIME 1045A
REGISTRATION 5500 TUE 2355
OPERATOR CS 5C DIA 88-2
50' Roll
0° Pitch

TEST REPORT



CONTROL NO. 72-27
DATE 11 DEC 73 PURN 1060A
FREQUENCY 5500 TIME 0815
POLARIZATION JH R STATIC 30°
OPERATOR SC C. BYN 03-27
804-347
0° Roll 10° Pitch

TARGET MARKET

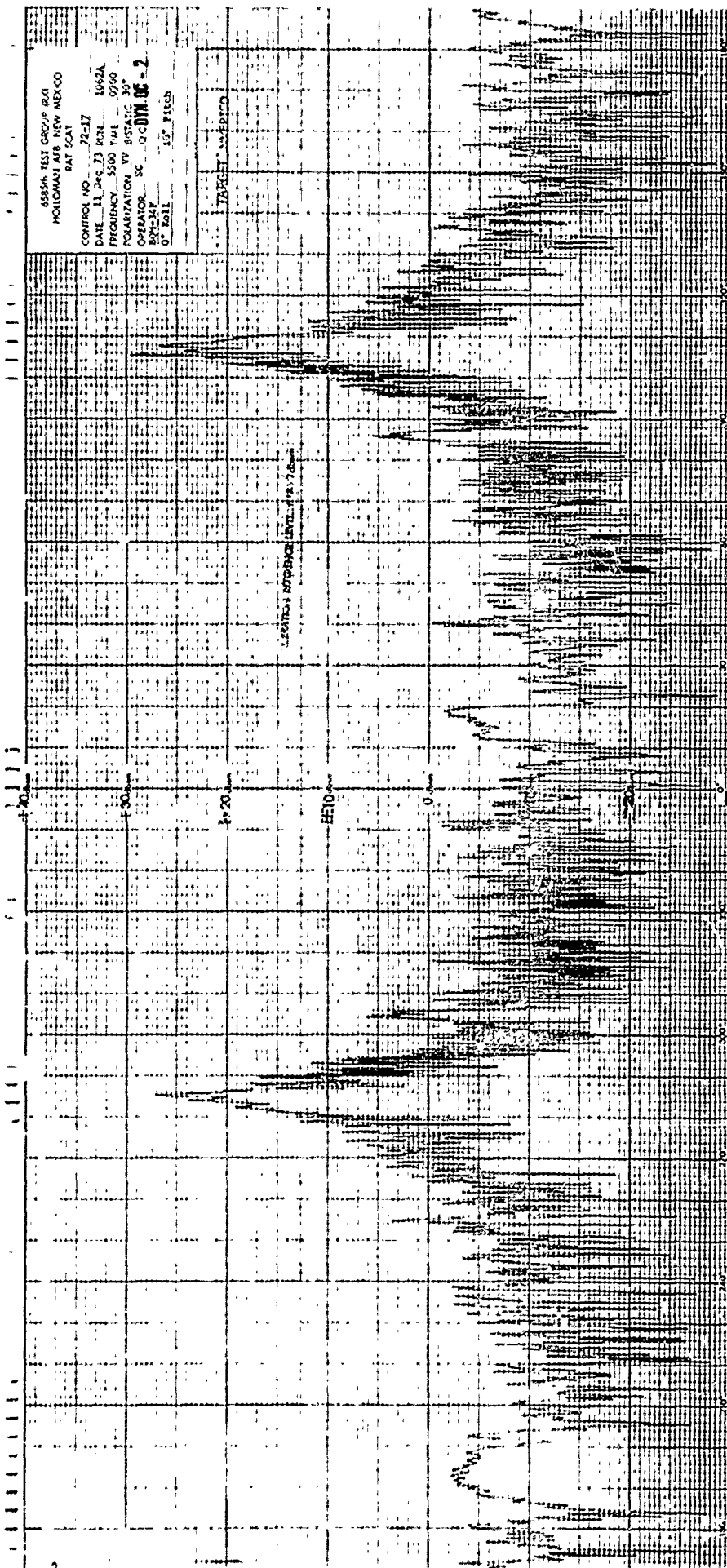
CONTROL NO. 72-17
DATE 11 Dec 73 RUN 10600
FREQUENCY 5500 TIME 0815
POLARIZATION 110 DESTIC 30°
OPERATOR SC O'DONOGHUE
274-347
U° Roll 16° Pitch

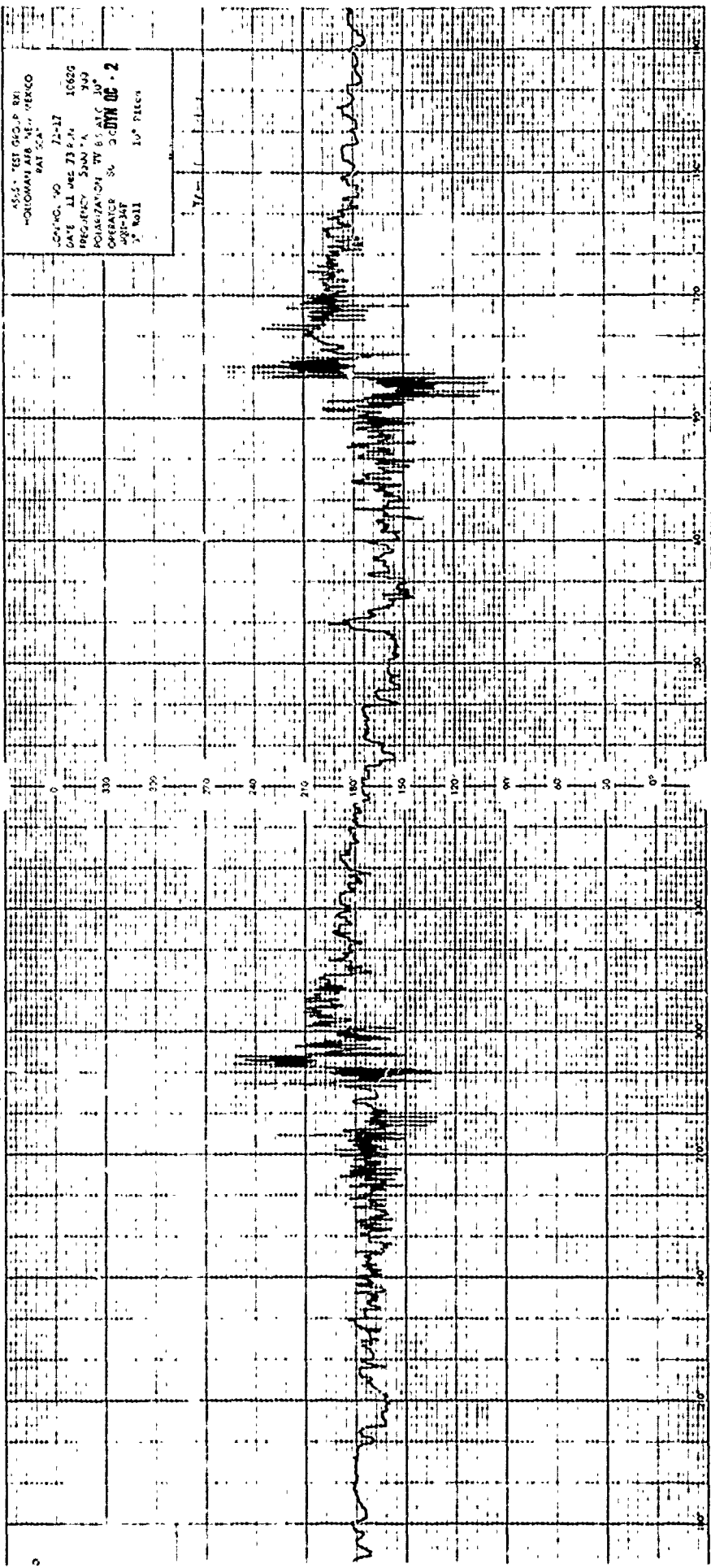
Target 1.4.5

4585th TEST GROUP (B/1)
 HOLLAND AIR NEW MEXICO
 BAT SCAT
 CONTROL NO. 72-17
 DATE 11 DEC 73 FOR 1062A
 FREQUENCY 5500 MHz 0700
 POLARIZATION TV STATIC 30°
 OPERATOR SC Q-C DTM 05-2
 844-247
 0° Roll 15° Pitch

TARGET ACQUIRED

LEADING EDGE OF TARGET

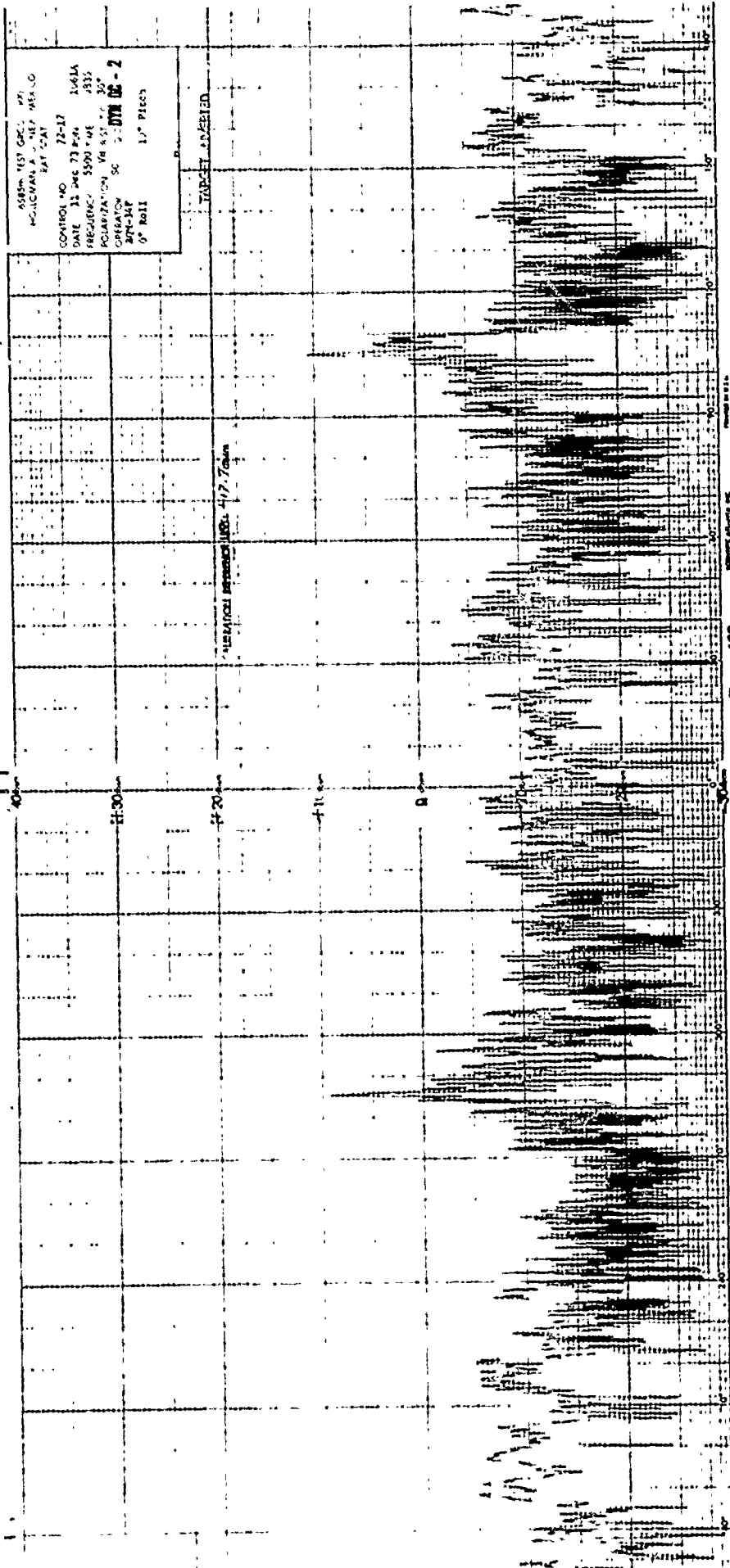




ASSEMBLY TEST QRC: 171
 POLICEMAN A - REF MEX LO
 EAST CAT
 CONTROL NO 72-17 1461A
 DATE 13 DEC 73 P-41 1835
 FREQUENCY 5500 KHZ
 MODULATION 100% 4.5 KHZ 30°
 ORIGINATOR SC 2-2 DTH 02-2
 APP-RT 0° ROLL 1.5° PITCH

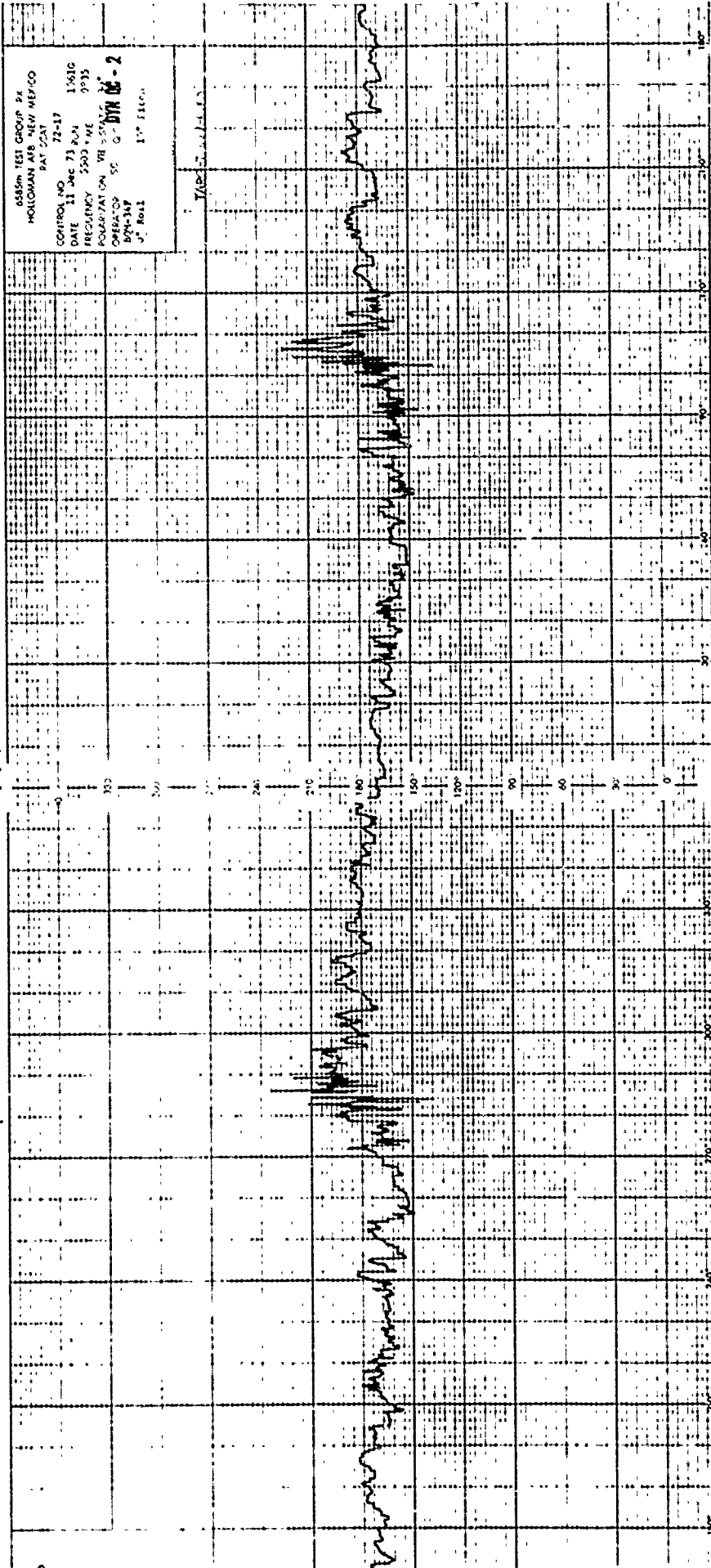
TARGET ANTERIOR

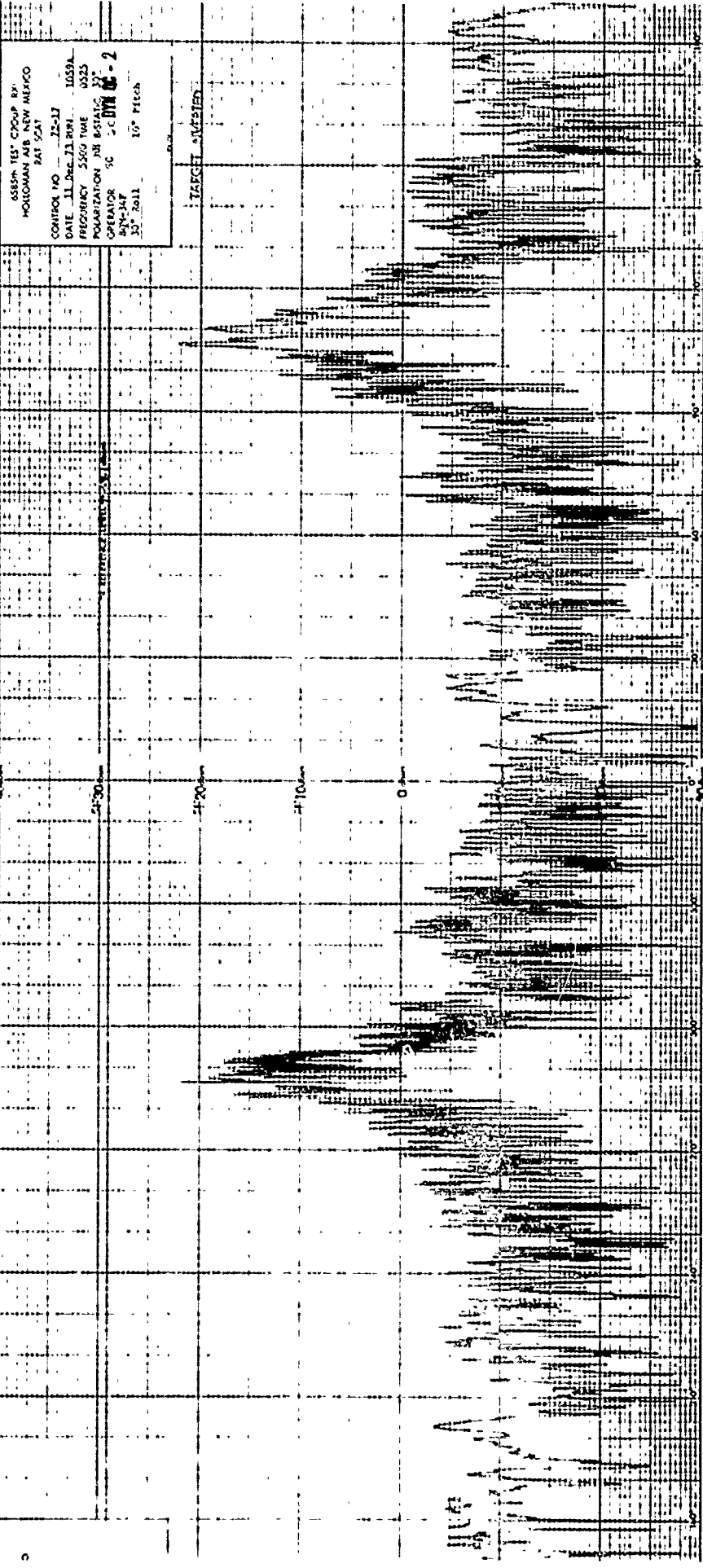
REMARKS: 4/17/74



685m TEST GROUP 2A
 MOLOMAN AFB NEW MEXICO
 DATE 11 Dec 73
 CONTROL NO 72-17
 DATE 11 Dec 73
 FREQUENCY 5000 MHz
 POLARIZATION VERTICAL
 OPERATOR SS C. DYN 06-2
 874-347
 J. Roll 1.5" ETC.

7/12-7/13

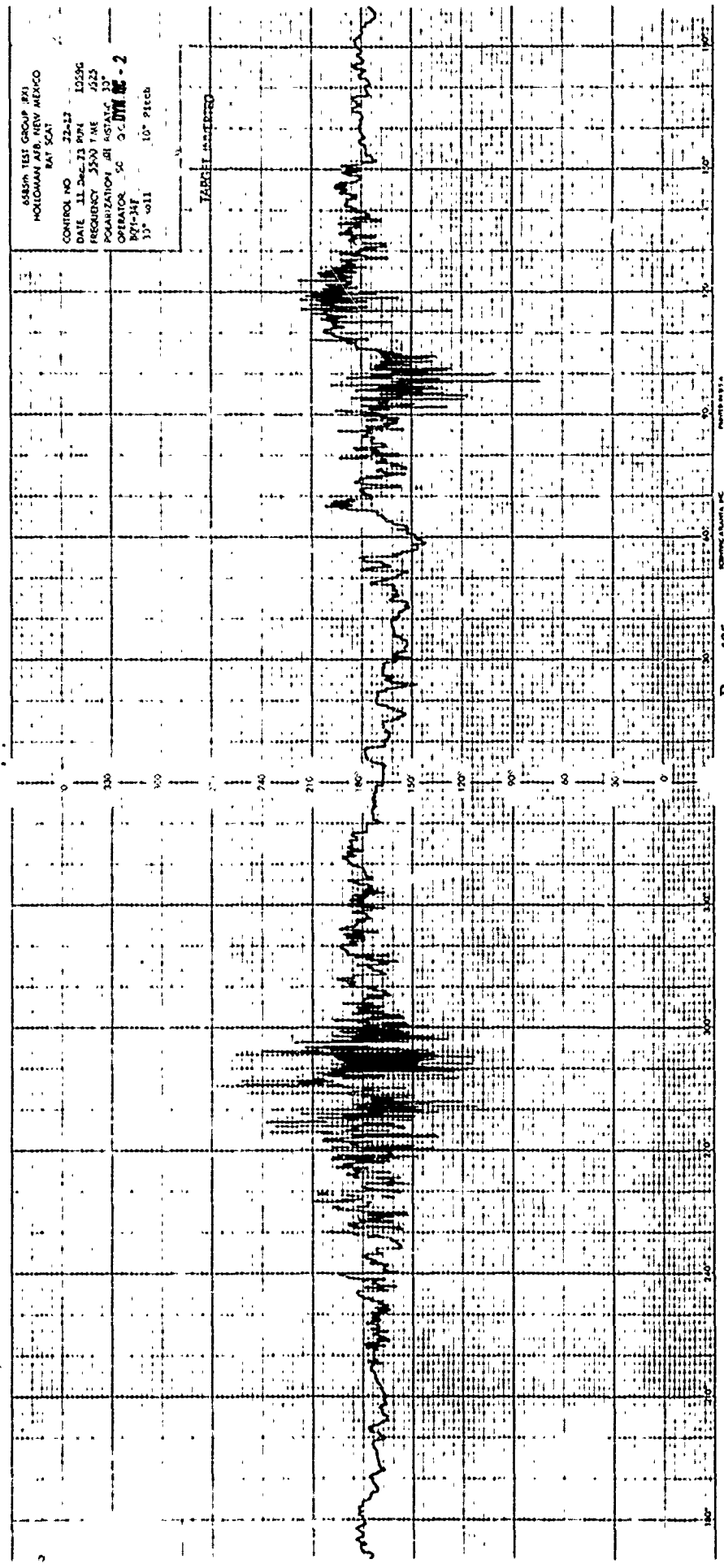




ASSON TEST GROUP #21
HOLLOMAN AFB, NEW MEXICO
RAY SCAT

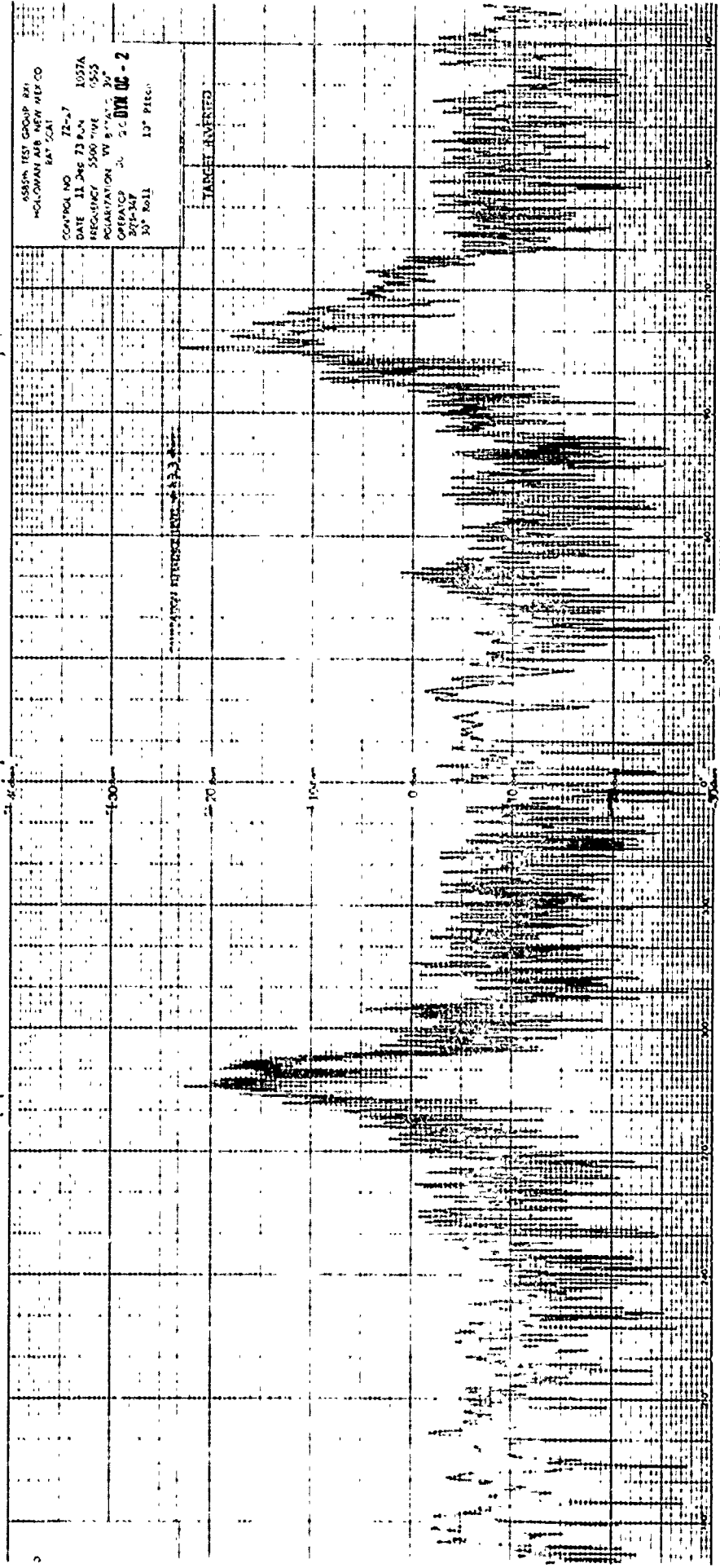
CONTROL NO 22-43
DATE 11 Dec 73 904 1525G
FREQUENCY 3500 MHz 1525
POLARIZATION RH ASY 15°
OPERATOR SC C. J. H. B. - 2
807-347
15° roll 10° pitch

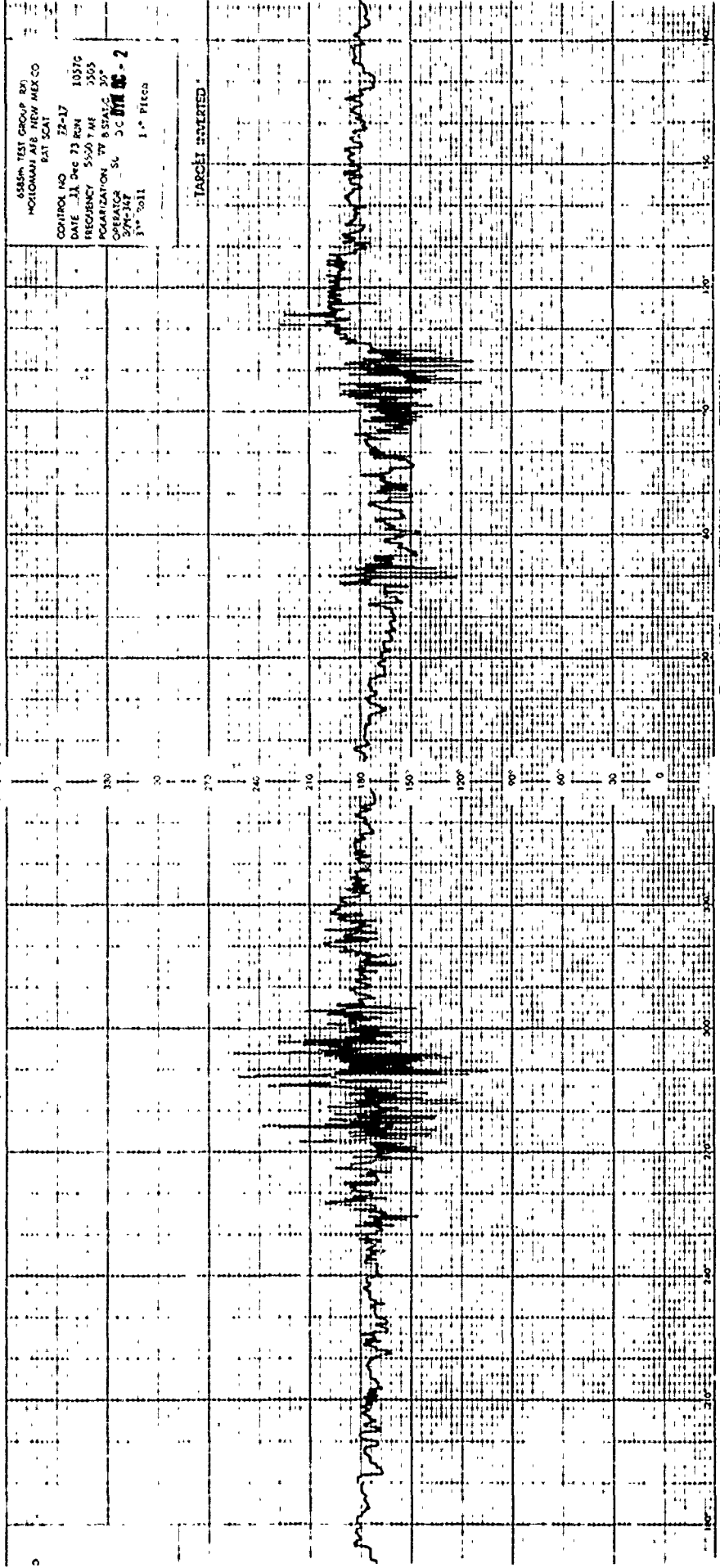
TARGET ASTERO



ASSON TEST GROUP 221
 HOLLOMAN AIRB NEW MEXICO
 SAT 501
 CONTROL NO 72-27
 DATE 11 AUG 73 R/N 1057A
 FREQUENCY 5500 "IVE" 0505
 REGISTRATION WY 8 "AT" 30"
 OPERATOR DL 200 DYN 02-2
 2714-347
 30" Roll 13" Pitch

TARGET IDENTIFIED

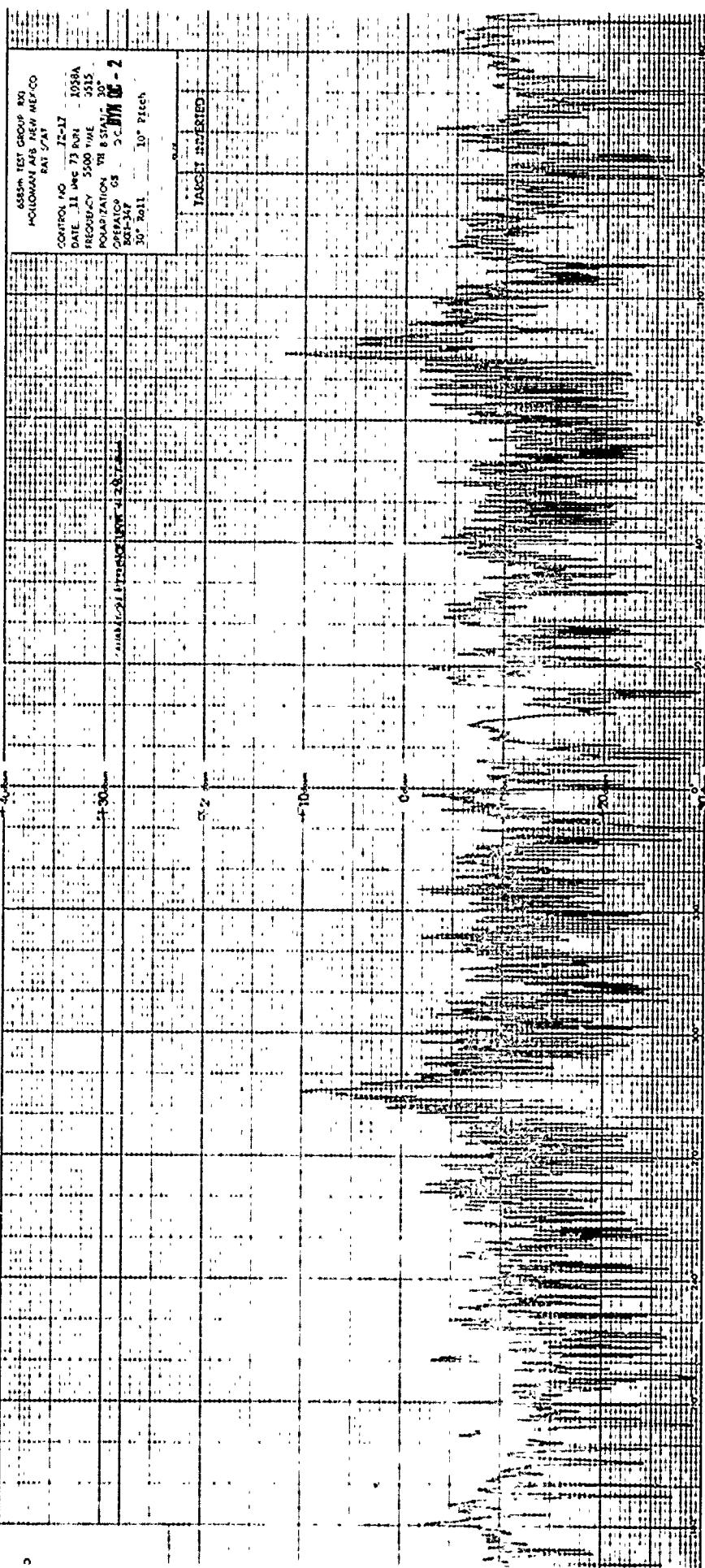




ASSEMBLY TEST GROUP RUN
HOLLOMAN AIR FORCE BASE TEXAS
BAT SCAT
CONTROL NO 72-17
DATE 11 Dec 73 RUN 1037G
FREQUENCY 5500 MHz 5503
POLARIZATION TV 8 STATE 30°
OPERATOR SC DC DTN 02-2
574-147
1st 0011 1st Pitch

TASCHER LIMITED

ENGINEERING AIR DATA INC
PRINTED IN U.S.A.



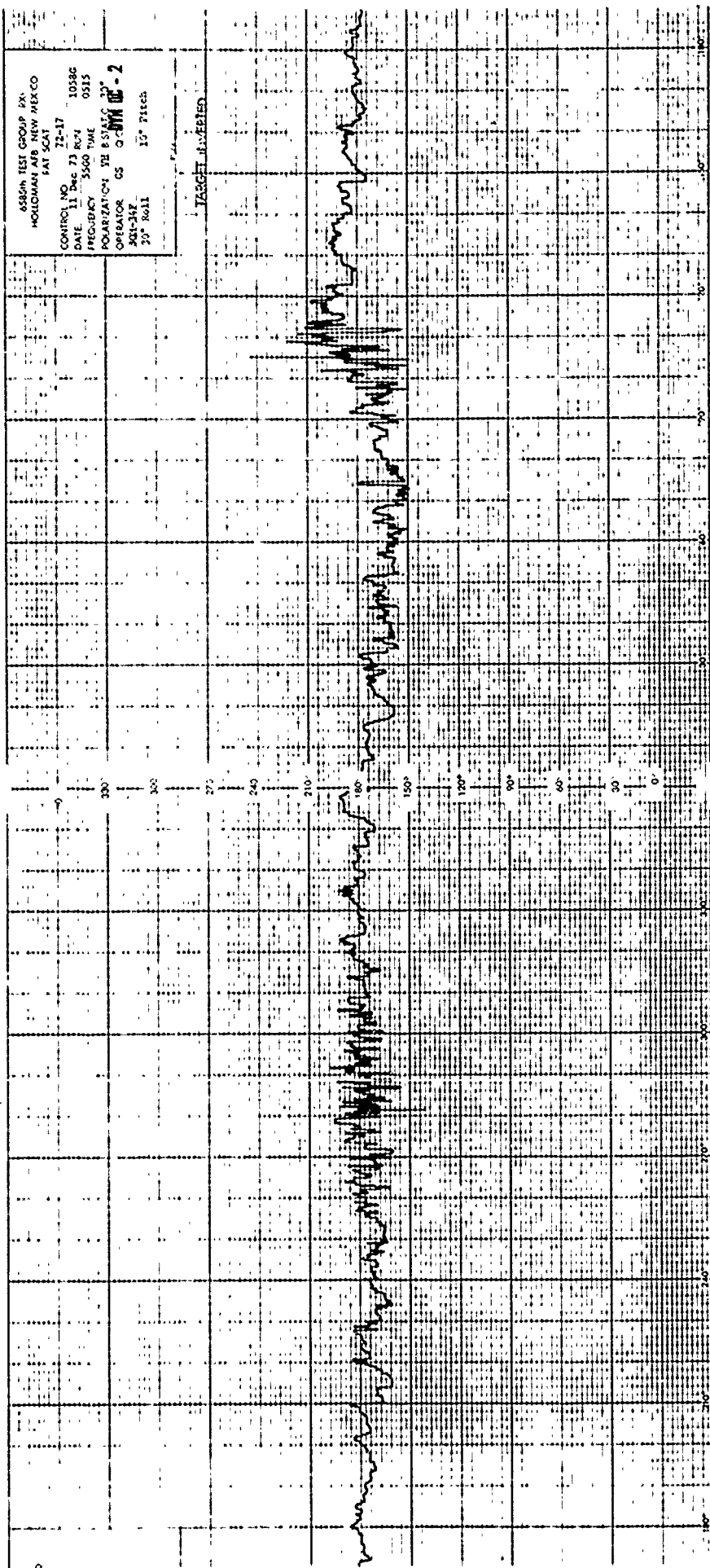
GREEN TEST GROUP 80
POLARONAL AIR MED CO
BAT 7AT

CONTROL NO 72-17
DATE 11 DEC 73 RUN 0388A
FREQUENCY 5500 MHz 5515
POLARIZATION VIB 8 STAB 30°
OPERATOR GS 5C 0000-2
SOP-347
30° Roll 10° Pitch

TARGET SCATTERED

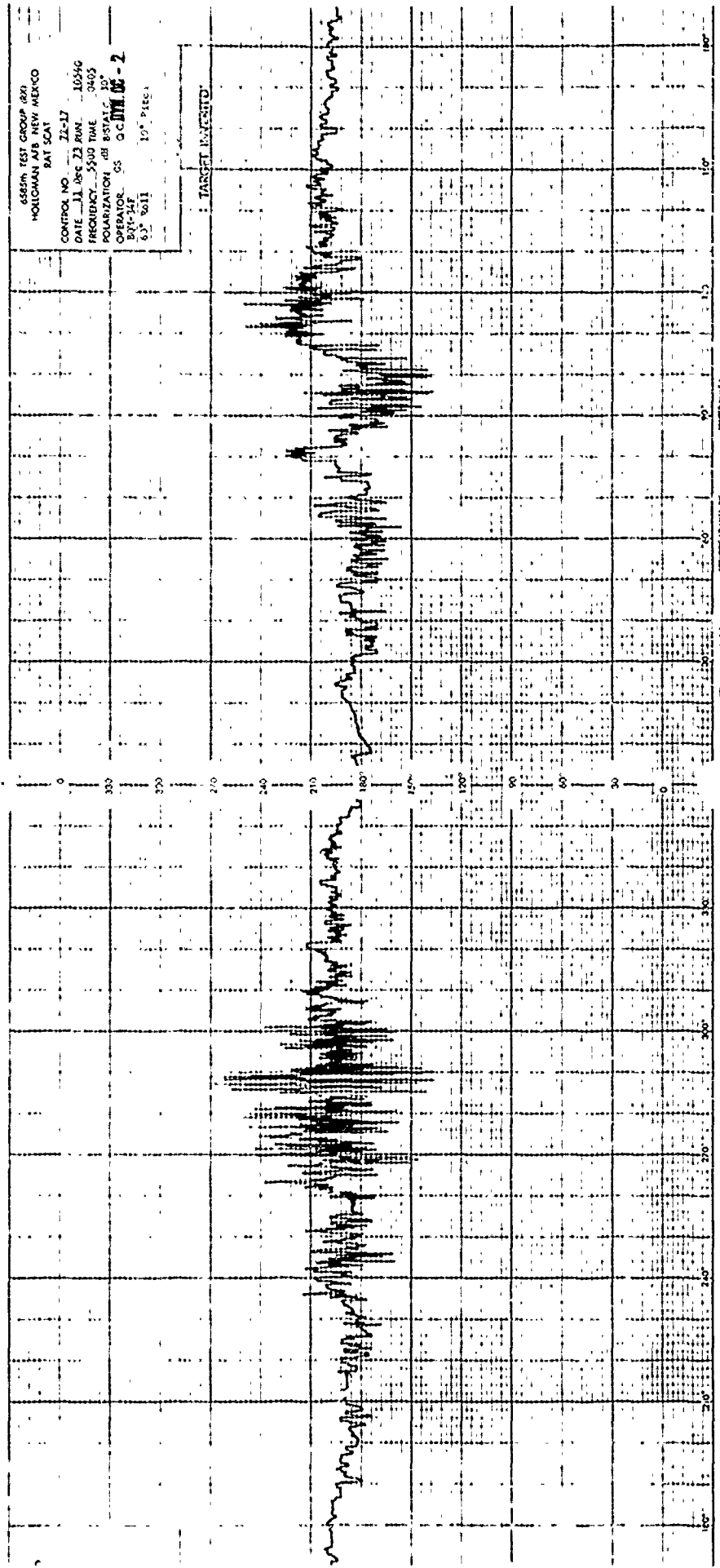
6550th TEST GROUP EX
 HOLLAMAN AFB NEW MEXICO
 FAT SCAT
 CONTROL NO 72-17
 DATE 11 Dec 73 RCY 1038G
 FREQUENCY 5500 MHz 0515
 POLARIZATION VE 8513C 20°
 OPERATOR GS G-2
 401-312
 20° Roll 10° Pitch

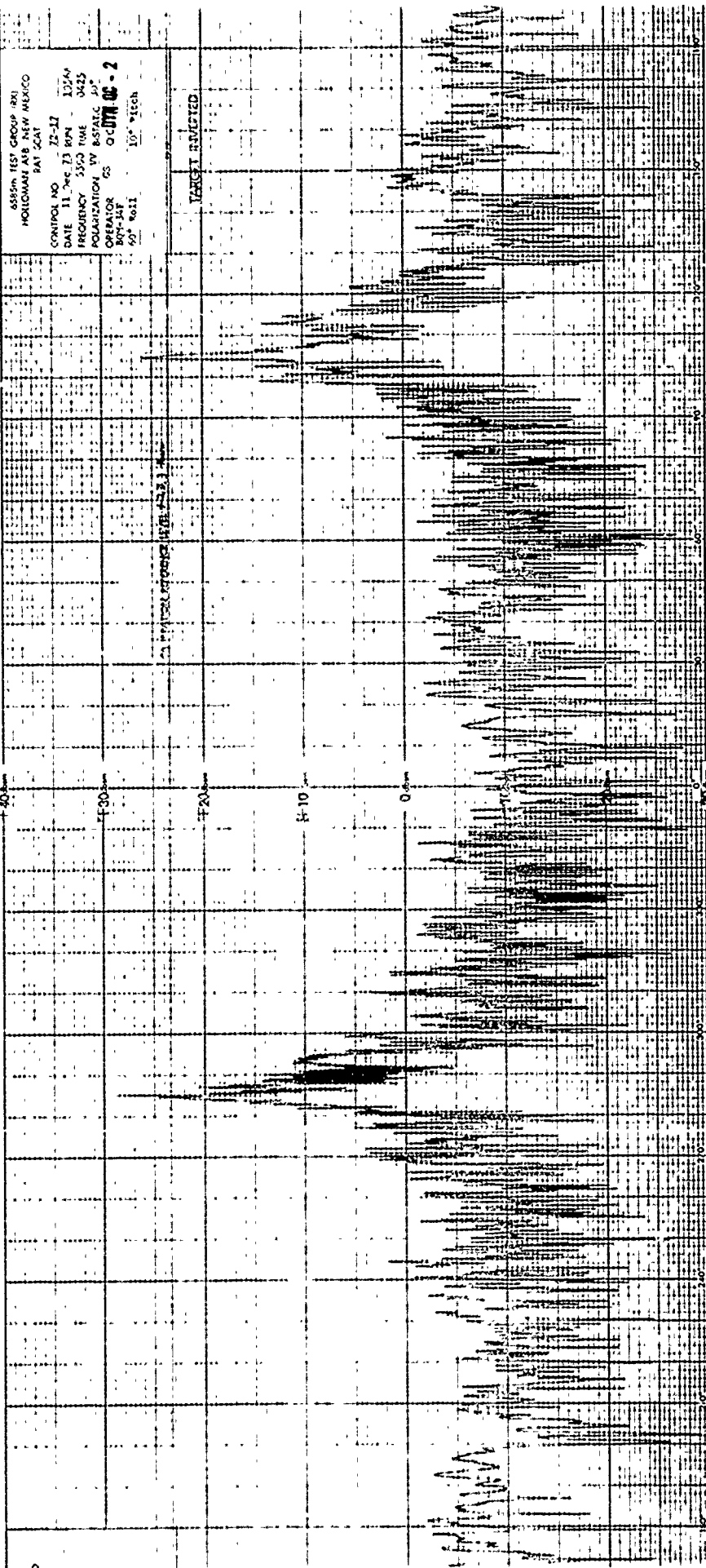
TARGET IDENTIFIED

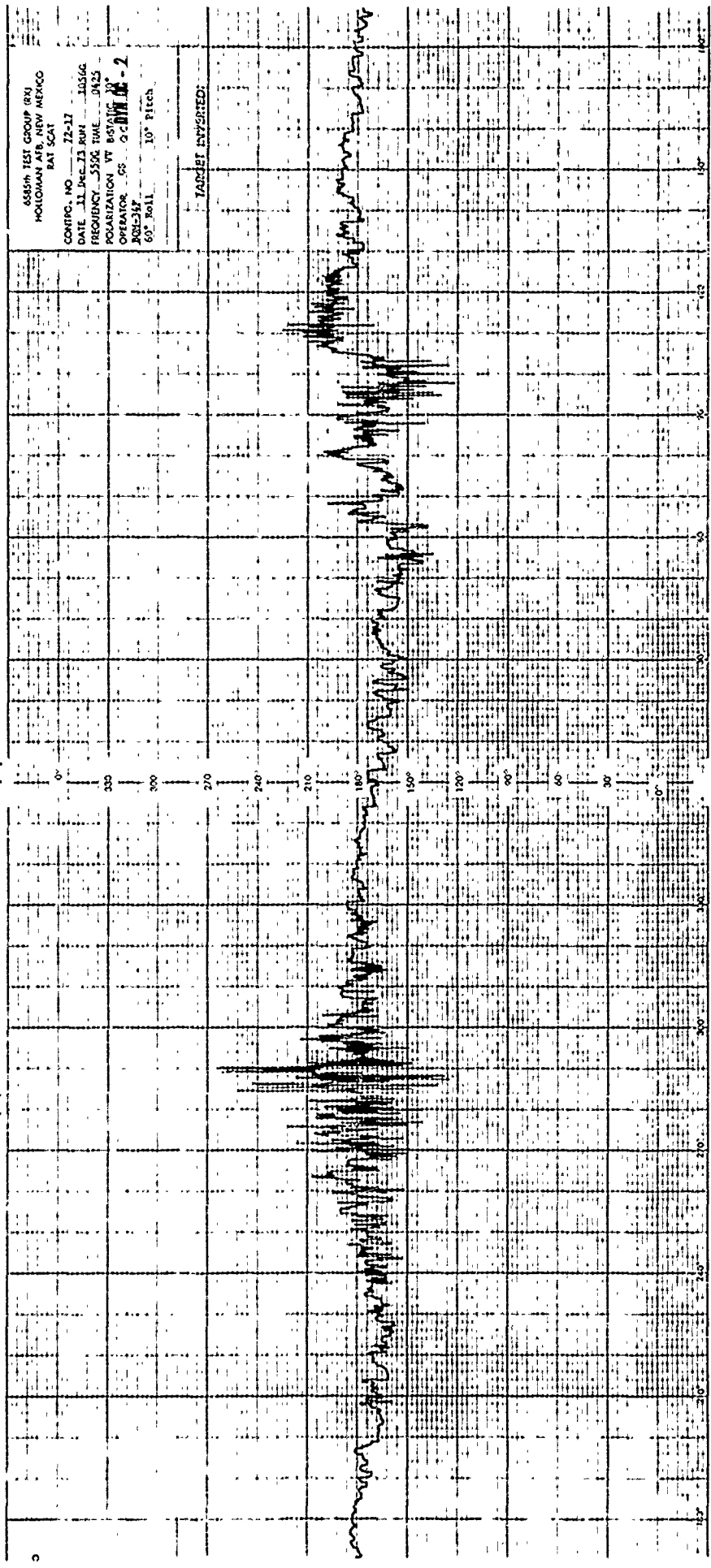


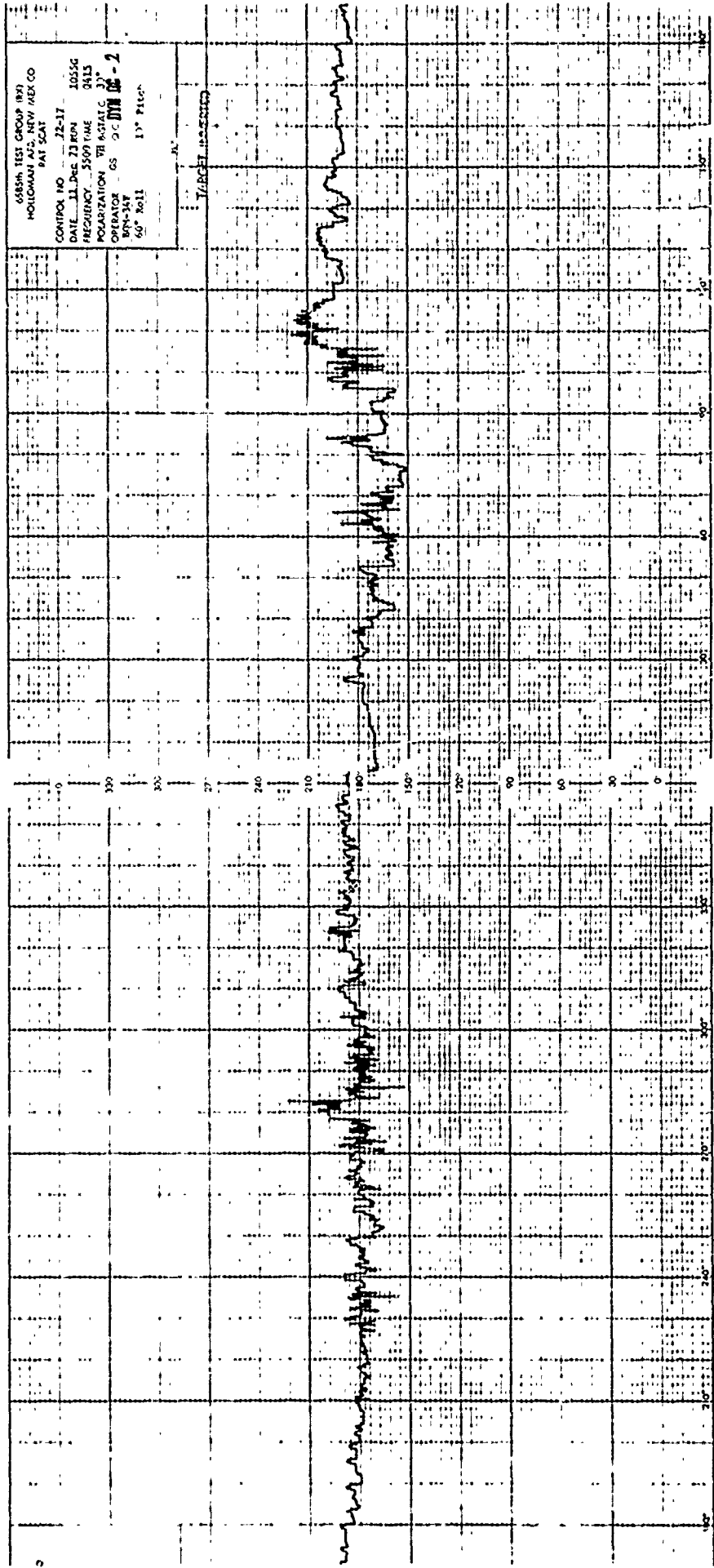
CONTROL NO. 72-27
DATE 11 Dec 73
TIME 1054H
FREQUENCY 5500
TIME 0405
POLARIZATION RH
BISTATIC 30°
OPERATOR CS
BQ-347
60° 2011
10° Pitch

GOAL SETTING



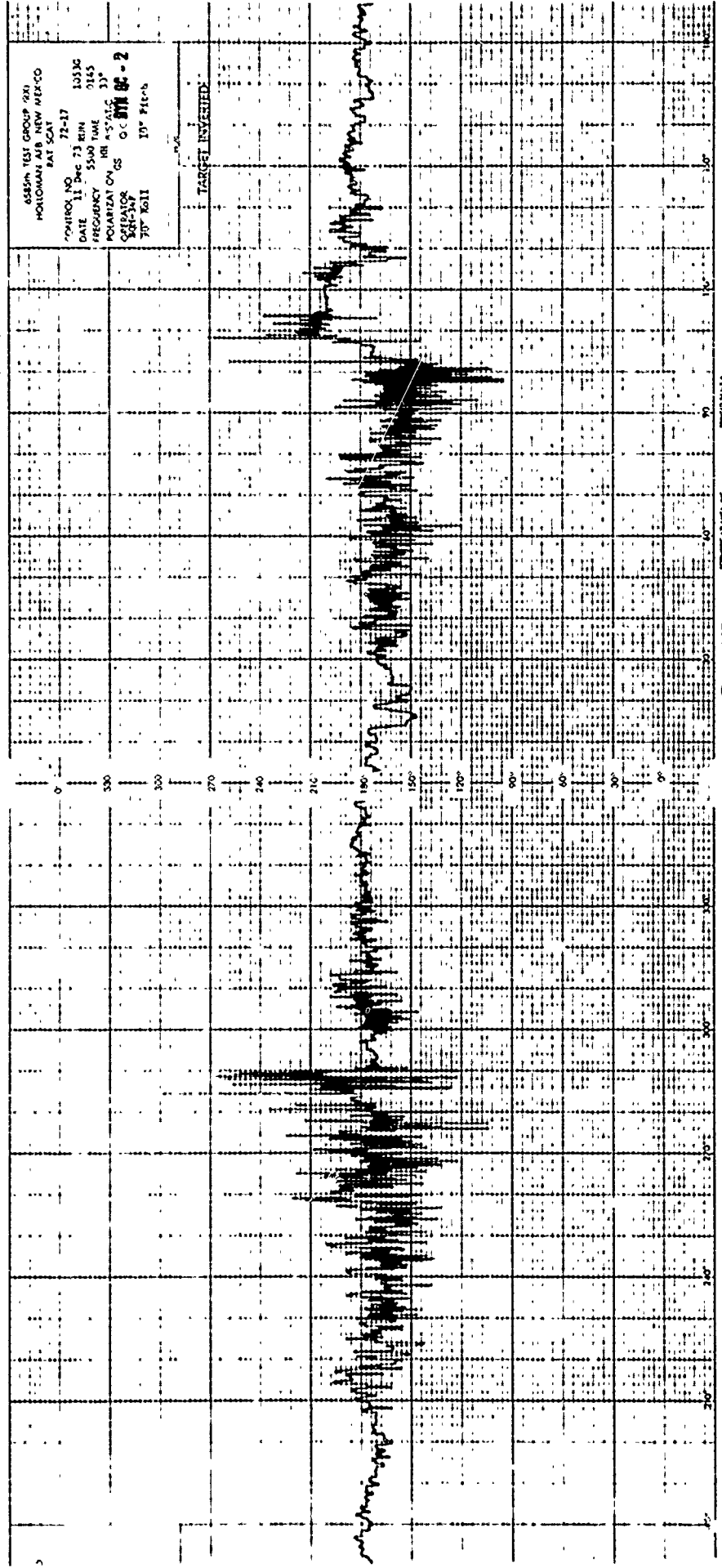






Part 1 of 1

Page 146



ASSEN TEST GROUP 921
HOLLOMAN AFB NEW MEXICO
RAT SCAT
CONTROL NO 72-17
DATE 11 Dec 73 1033G
FREQ 5500 KHz 0145
POLARIZAT ON RH 5°
OPERATOR CS 00811 00-2
CAPTAIN 10° Pitch
300' Roll

TARGET INVERTED

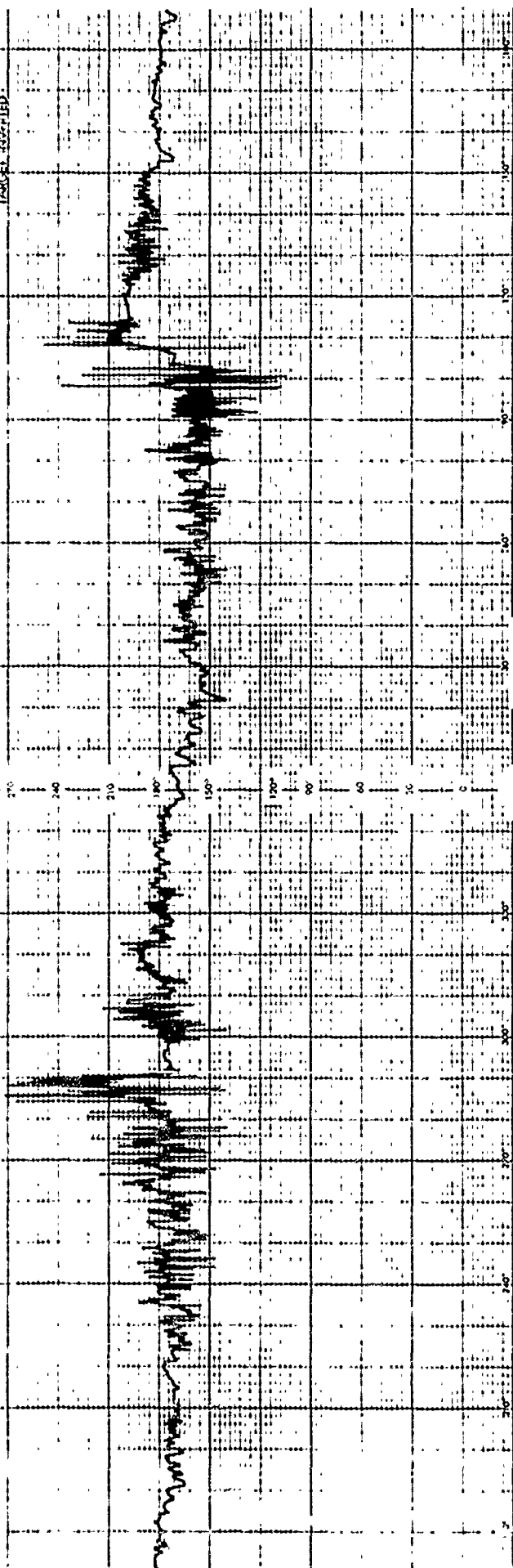
TESTED

Call 1-800-233-2333

Page 148

CONTROL NO. 72-17
DATE 11 DEC 73 RUN 1551G
FREQUENCY 5500 TME 2115
POLARIZATION VV BSTATC 30°
OPERATOR GS QC BYN DC - 2
304-347
9C° Roll 10° Pitch

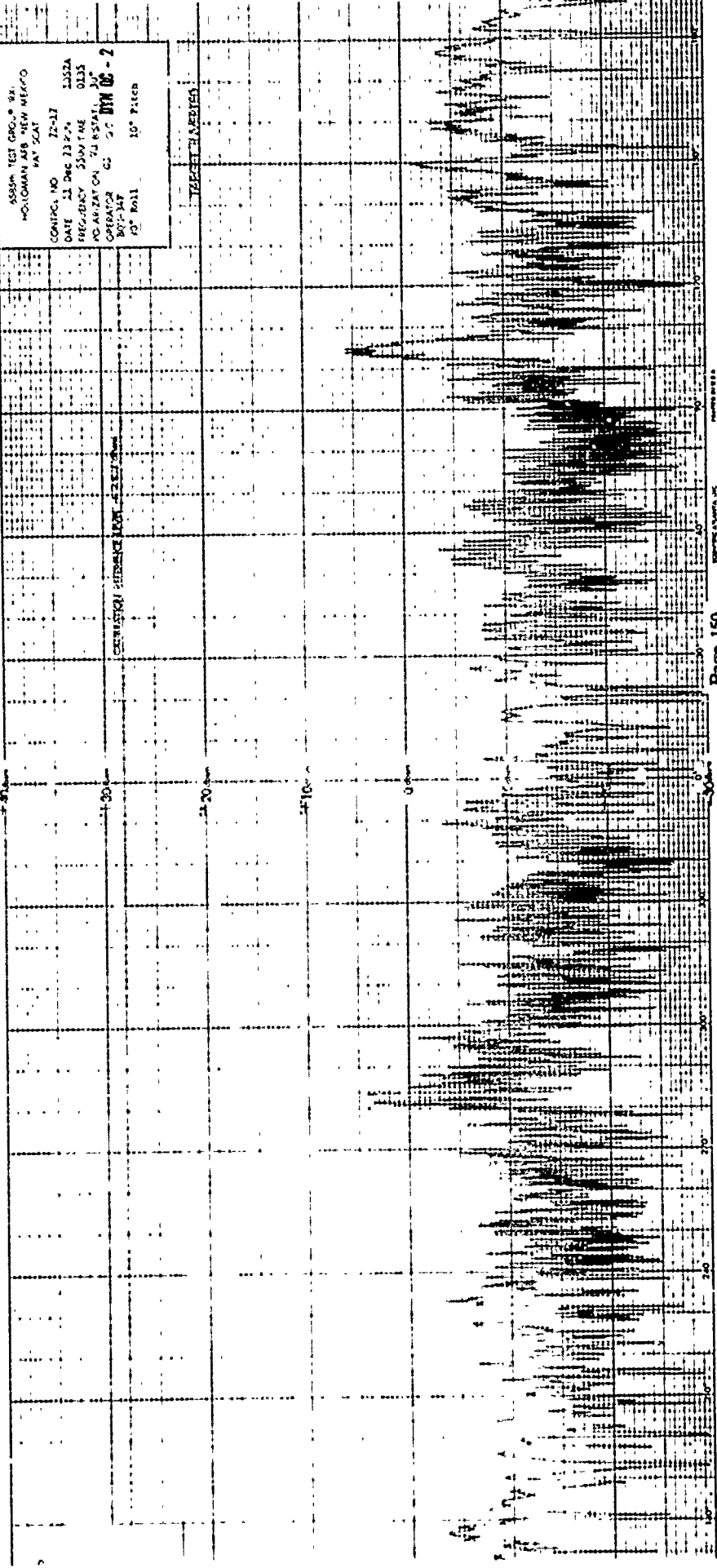
TARGET TESTED:

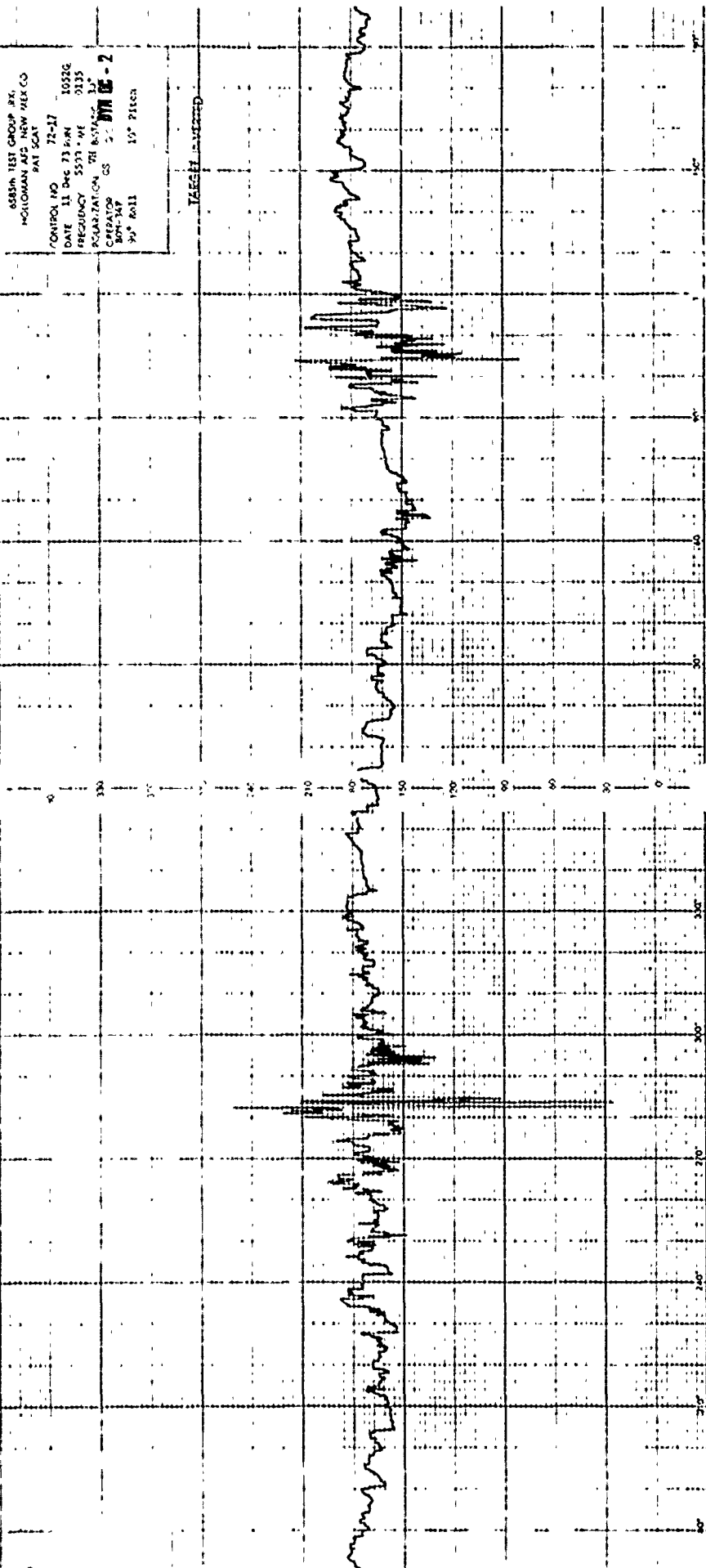


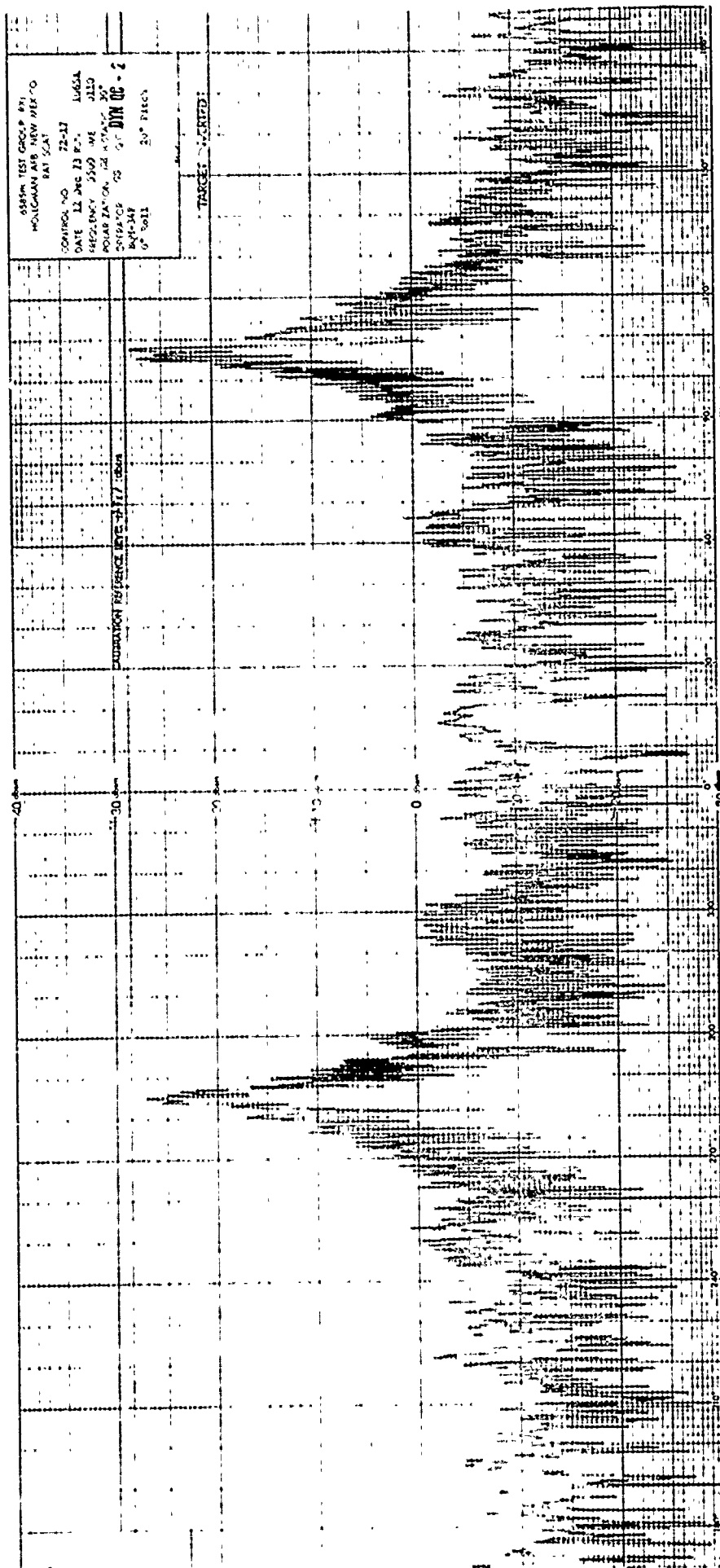
5555M TEST GRO. 9A
 HOLLOMAN AFB NEW MEXICO
 PAT SCAT
 CONTING. NO 12-17 1352A
 DATE 11 Dec 73 2-4
 FREQUENCY 5500 MHz 0135
 POLARIZATION VERTICAL, 30°
 OPERATOR GJ JC BVM 02-2
 807-347
 10° Roll 10° Pitch

TARGET IDENTIFIED

ORIENTATION: 180° FROM 421.7°







63525 TEST GROUP BY
HOLCOMB AIR NEW MEXICO
RAT SEA

CONTROL NO 72-17
DATE 12 Dec 71 9:25 1055G
FREQUENCY 3500 MHz J110
POLARIZATION RH 55.2° 30°
OPERATOR GS J DYN 05-2
B7H-3AF
0° Roll 20° Pitch

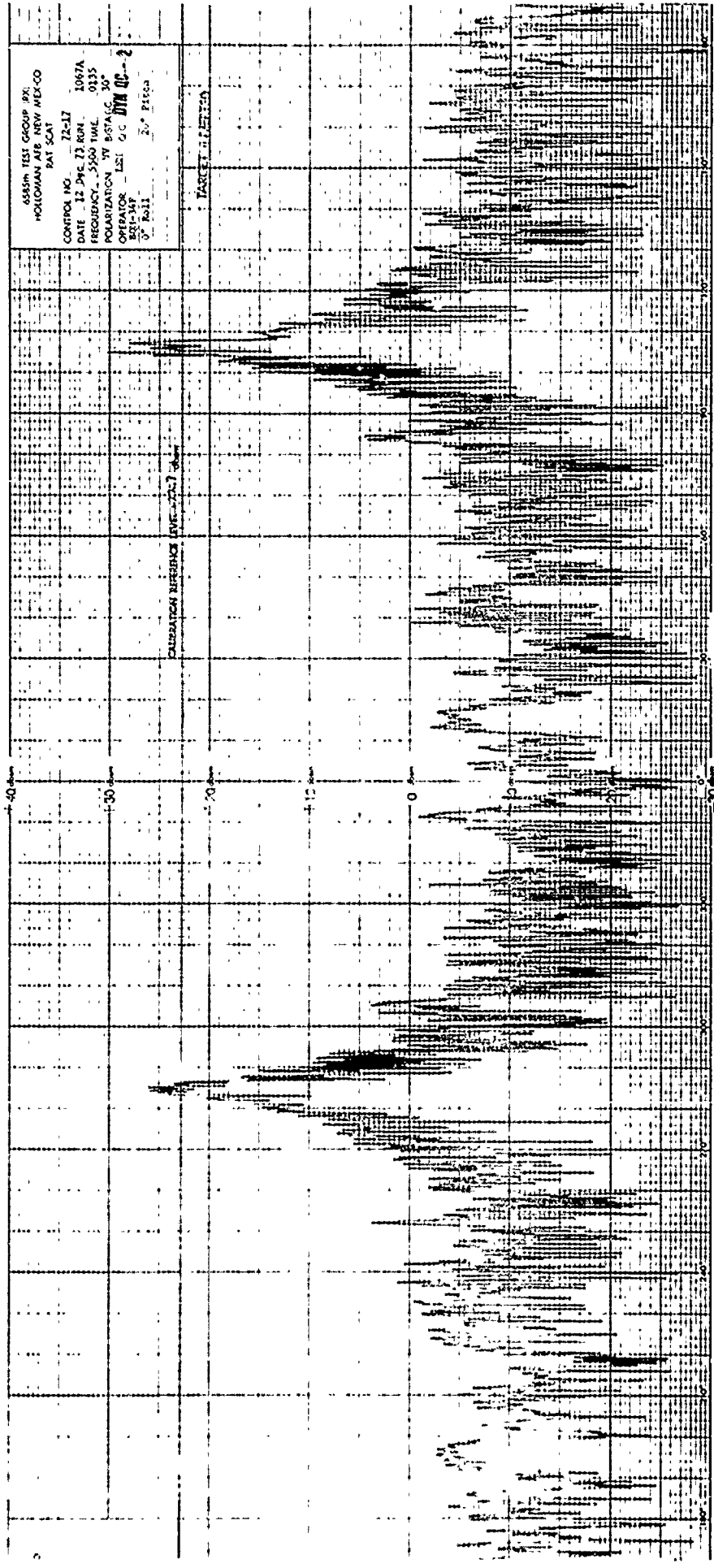
TARGET IDENTIFIED

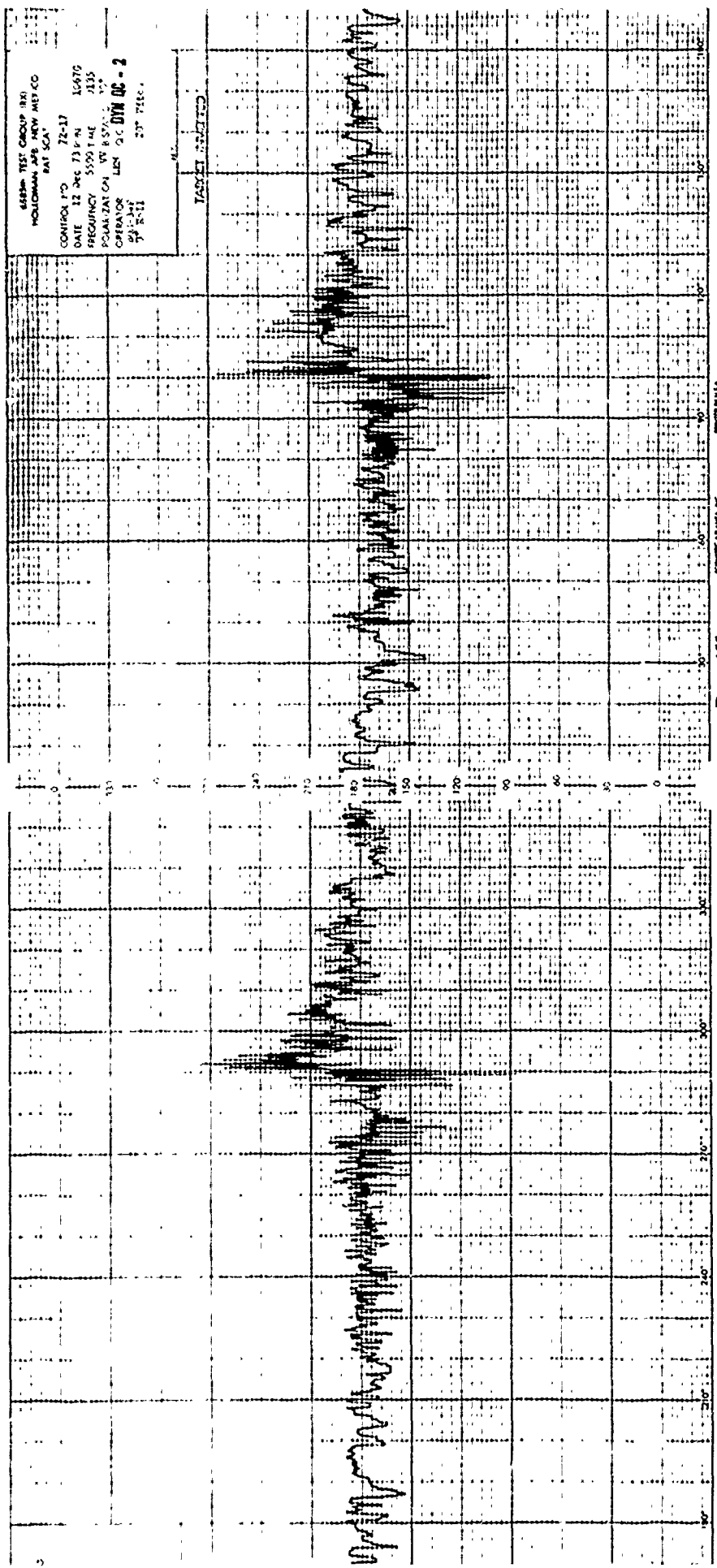
6
5
4
3
2
1
0

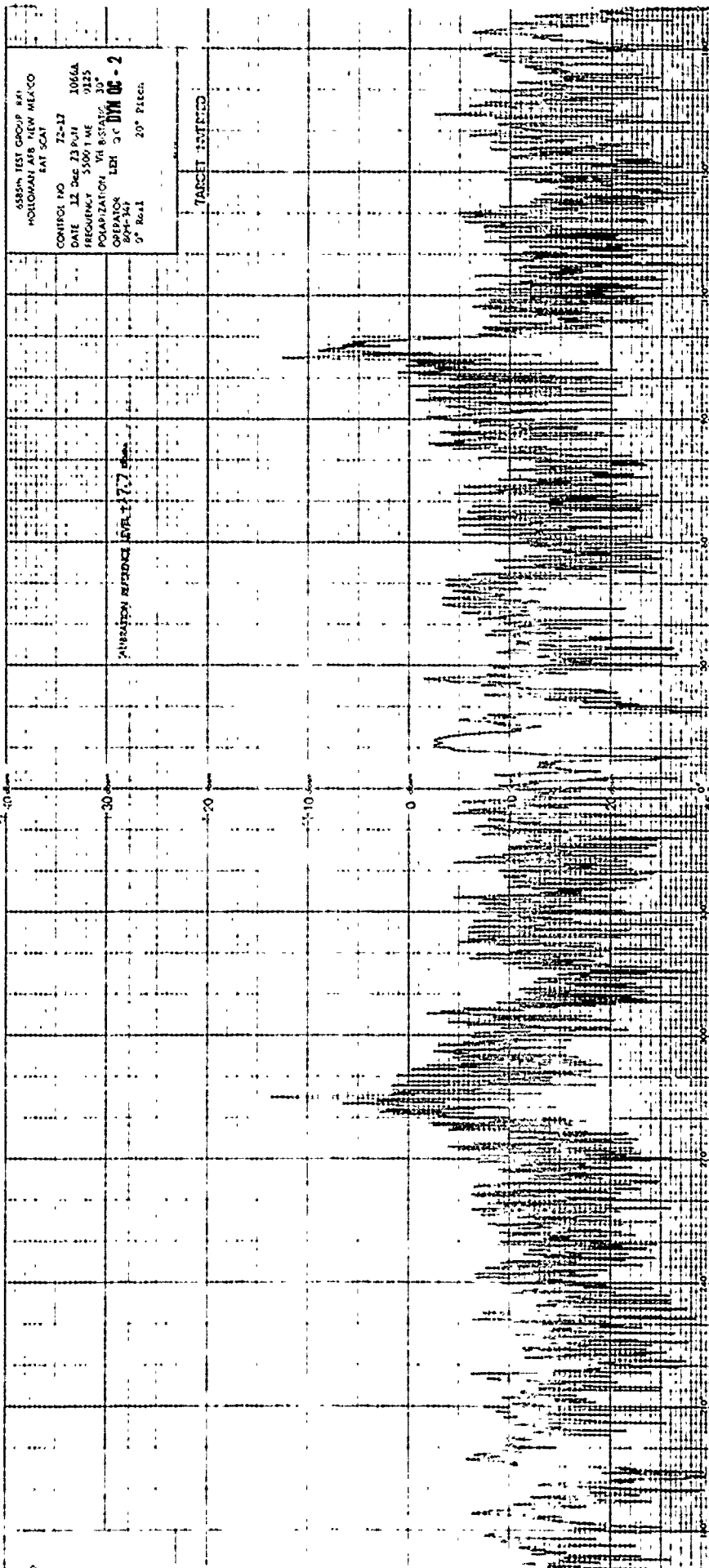
200 400 600 800 1000 1200 1400 1600 1800

COLUMBIA UNIVERSITY

Page 153







6585th TEST GROUP (BA)
HOLLOWMAN AFB NEW MEX CO
PAT SCAT

CONTROL NO 72-17
DATE 12 Dec 73 RJA
FREQUENCY 5550 MHz
POLARIZATION VERTICAL
OPERATOR LBN
80% RFL
0° Roll
20° Pitch

15566
0125
3°
DYN OC - 2

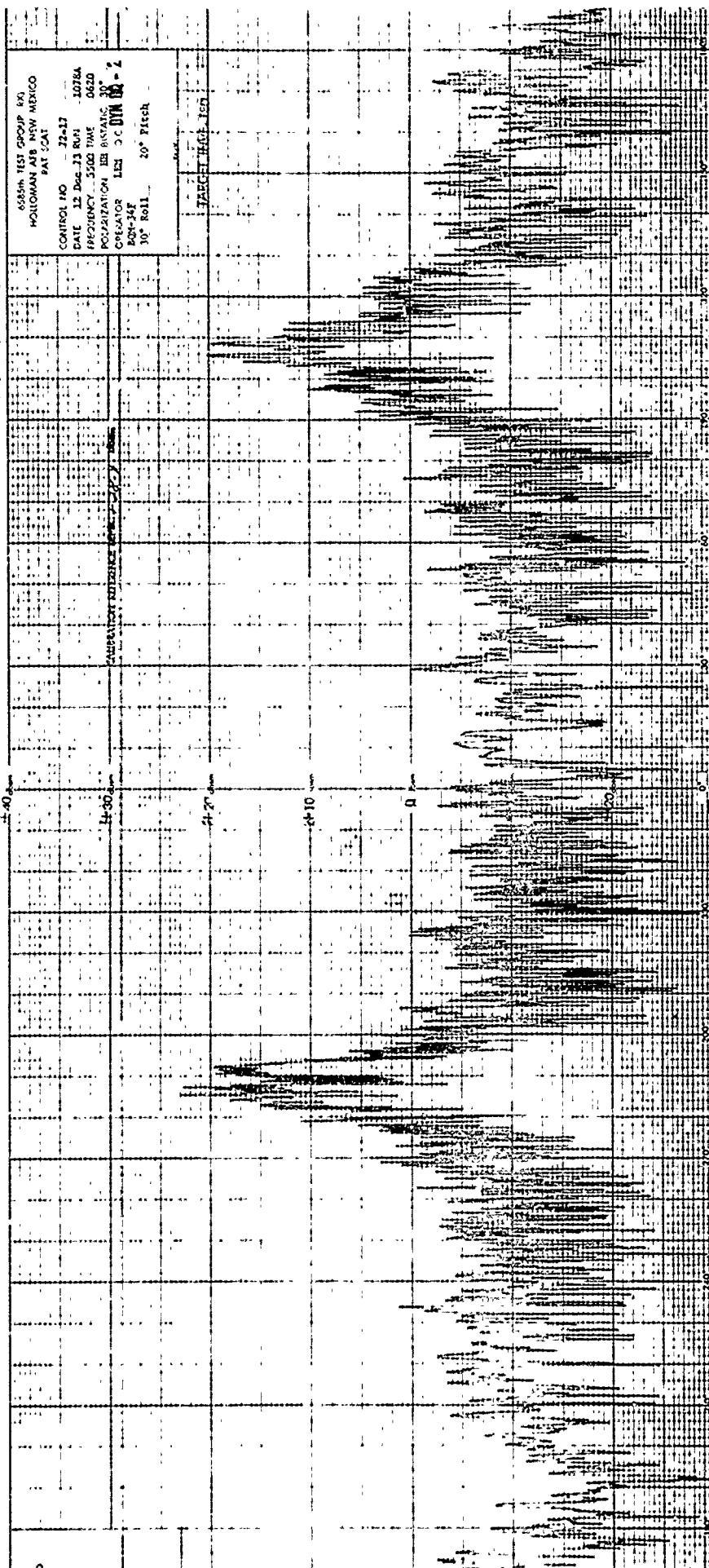
TARGET IDENTIFIED

330
300
270
240
210
180
150
120
90
60
30
0

300° 240° 210° 180° 150° 120° 90° 60° 30° 0°

100
200
300
400
500
600
700
800
900
1000
1100
1200
1300
1400
1500
1600
1700
1800
1900
2000
2100
2200
2300
2400
2500
2600
2700
2800
2900
3000
3100
3200
3300
3400
3500
3600
3700
3800
3900
4000
4100
4200
4300
4400
4500
4600
4700
4800
4900
5000
5100
5200
5300
5400
5500
5600
5700
5800
5900
6000
6100
6200
6300
6400
6500
6600
6700
6800
6900
7000
7100
7200
7300
7400
7500
7600
7700
7800
7900
8000
8100
8200
8300
8400
8500
8600
8700
8800
8900
9000
9100
9200
9300
9400
9500
9600
9700
9800
9900
10000

Page 157



CHS 1-10-11

Page 159

[illegible]

ASBSON TFSI CACCA P 181
COO CANAN AFR NEW MEX CO
RA "CA"

CONTAC: NO 72-11

DATE 12 Dec 73 BY 1076C

DATE: 10/10/2007 10:10 AM

RECEIVED JUL 19 1967

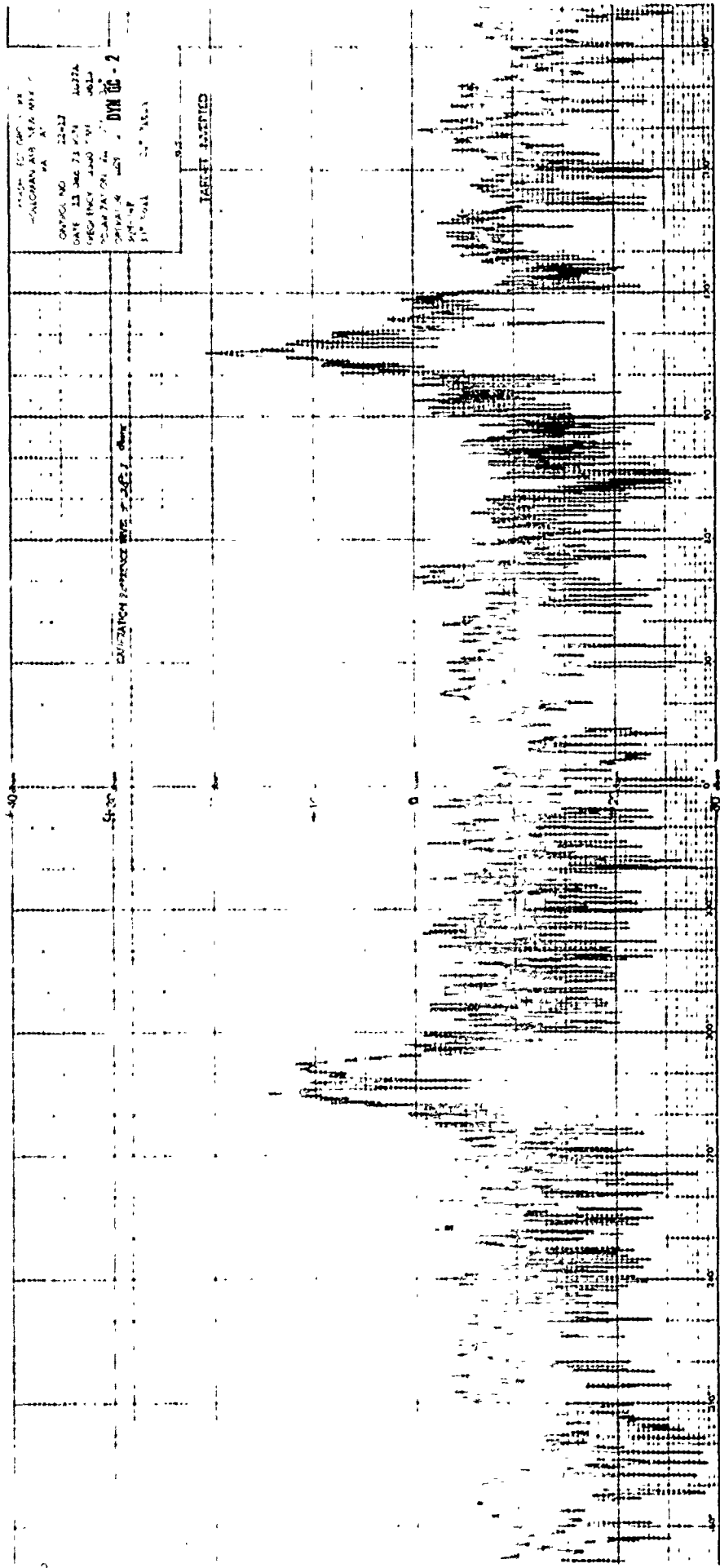
RECEIVED JAN 11 1964
COPYRIGHT BY THE
DYNOLITE CO.

[illegible]

DYN 02 - 2

TARGET MARKETING

Page 161

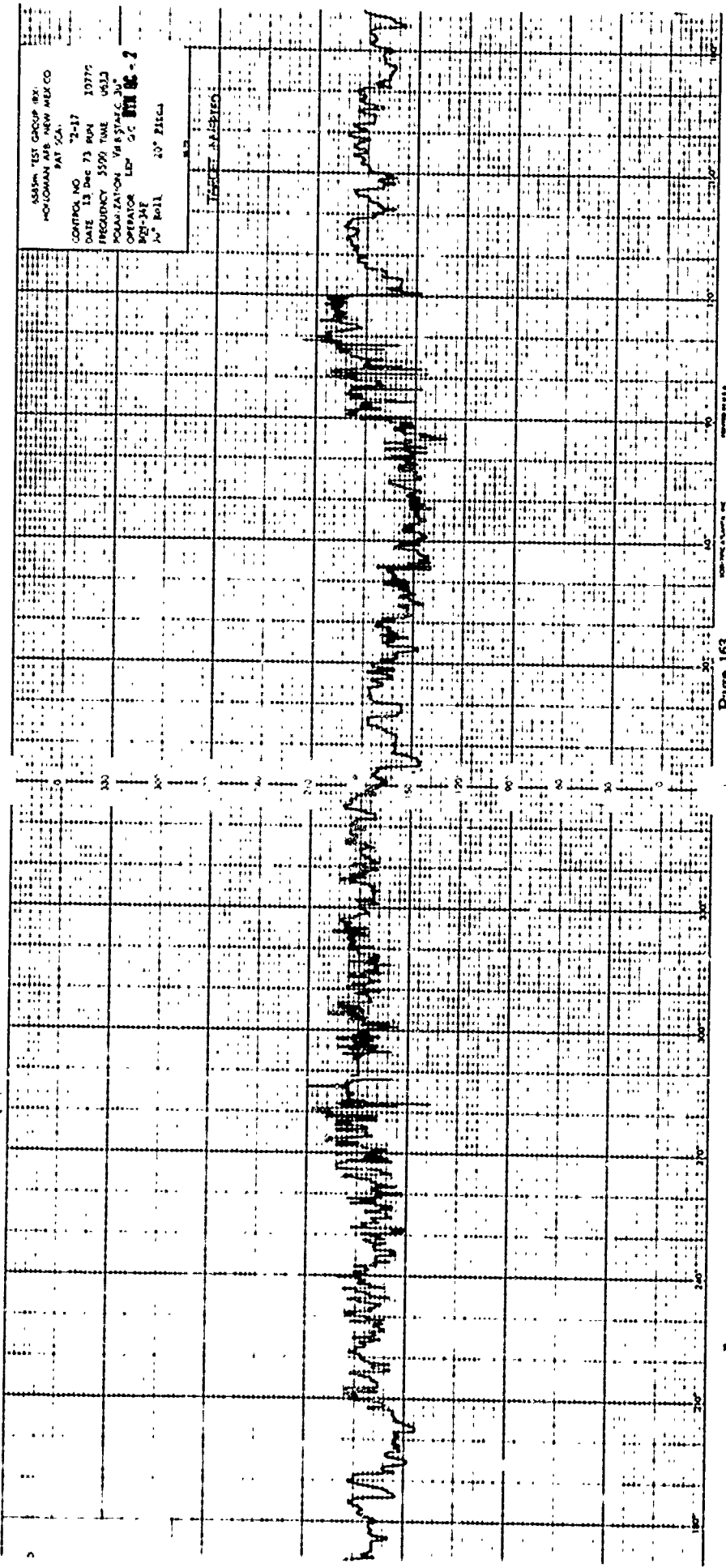


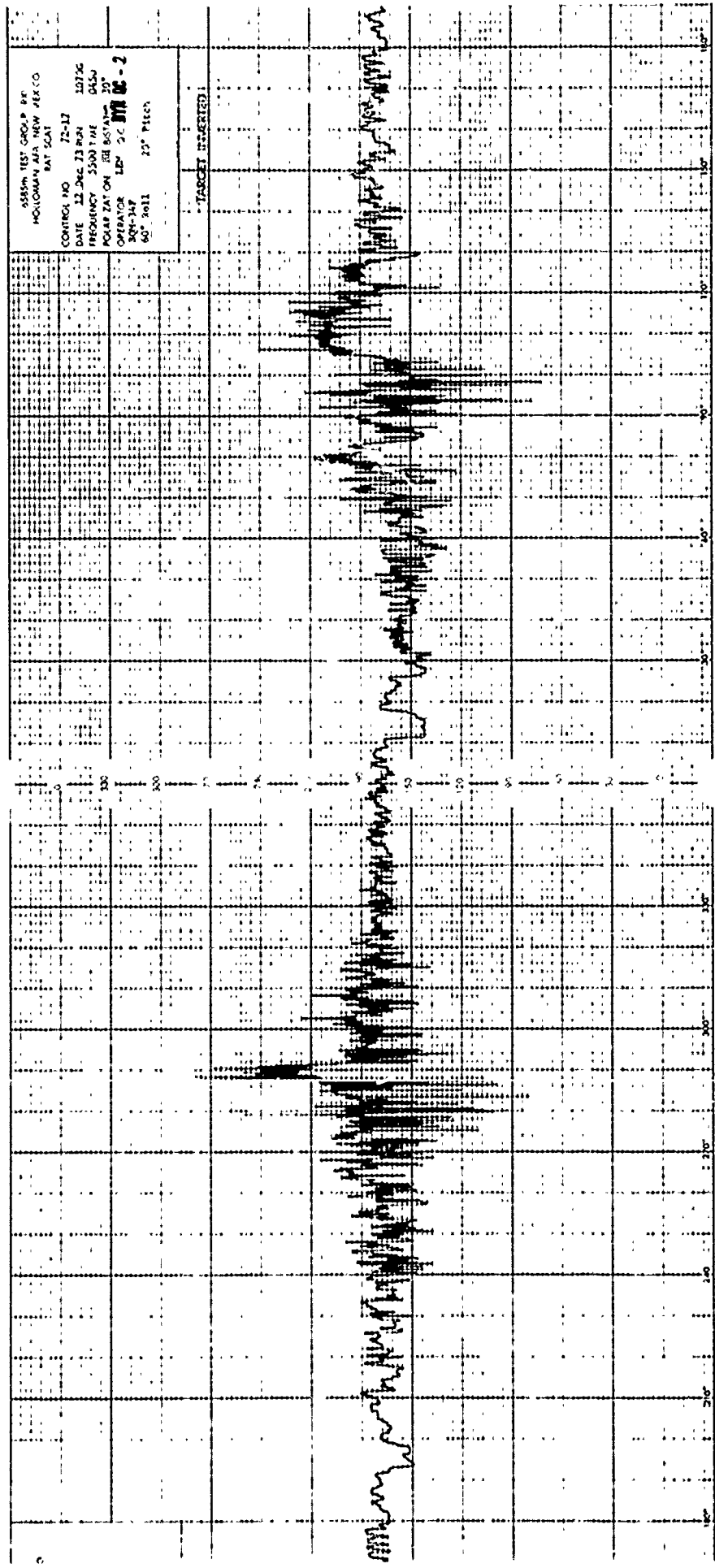
CONTROL NO. 12-12
DATE 12 DEC 71
FREQUENCY 1200 MHz
LOCATION 1200 MHz
TIME 12:00
12 DEC 71

JANET JENNIFER

ASSIN TEST GROUP INC
 100 COMMERCE ST NEW ALEX CO
 NAT CAN
 CONTROL NO 72-17
 DATE 13 Dec 73 RUN 10775
 FREQUENCY 5500 TIME 0633
 POLARIZATION VERTICAL 30°
 OPERATOR LEP C C
 825-242
 20° Roll 20° Etila

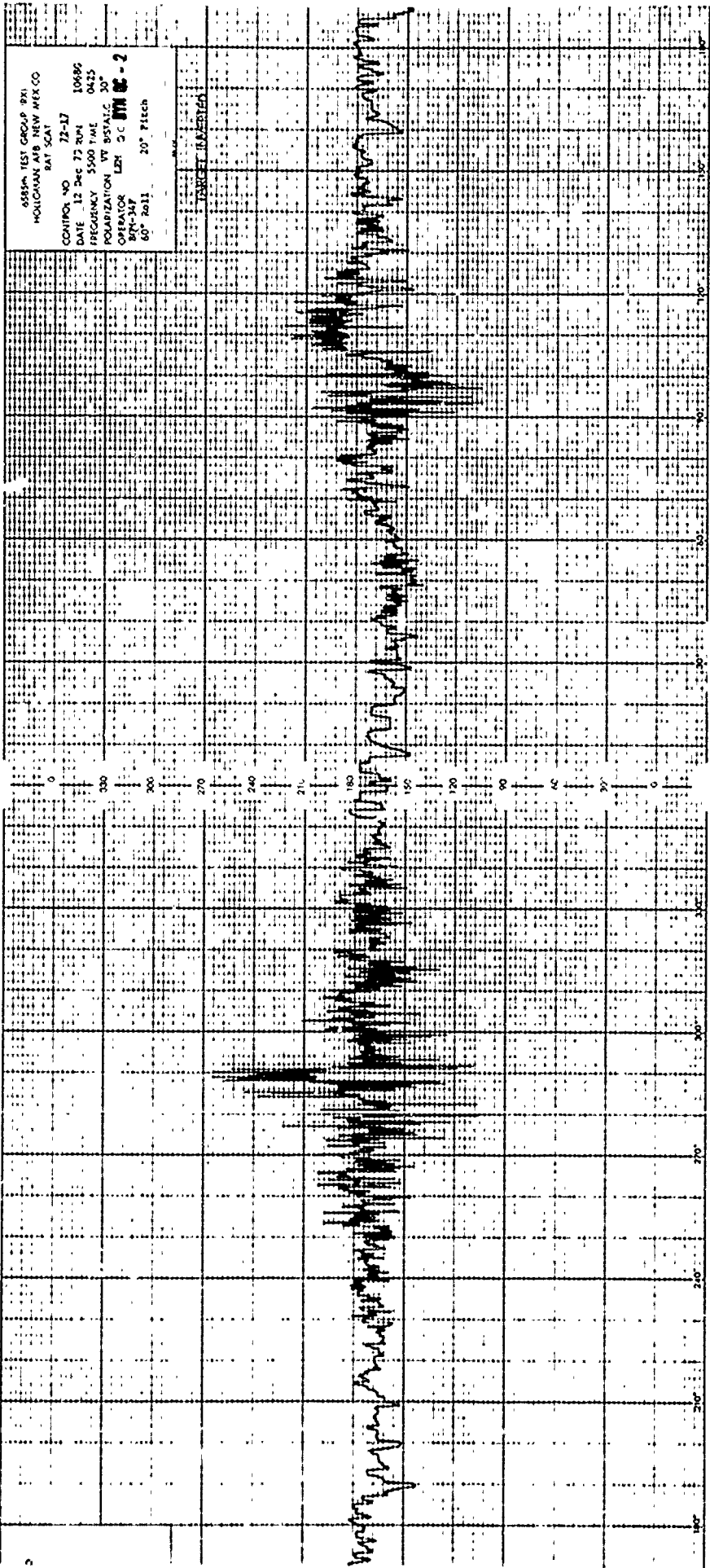
TARGET ADJUSTED
 100%

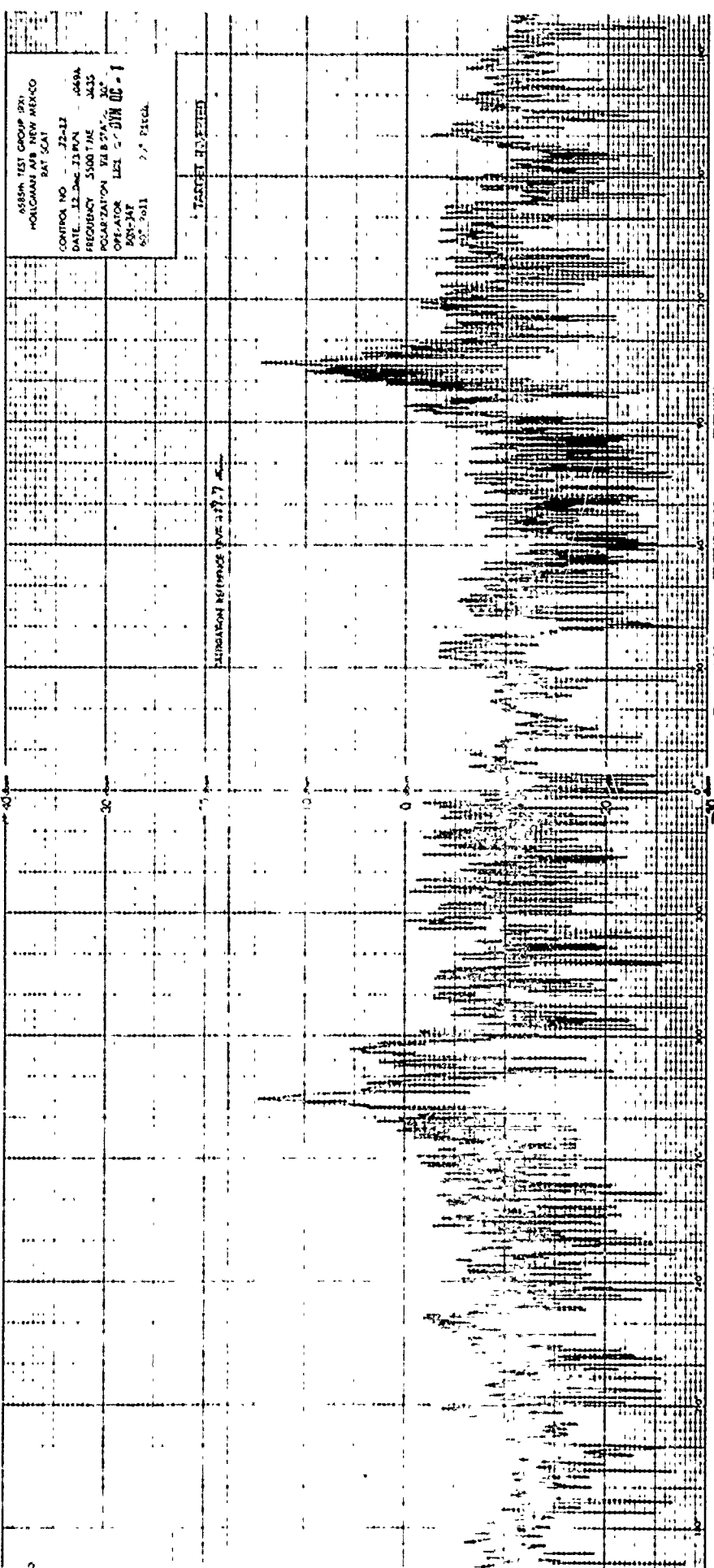




11-2-20

254-340-1772



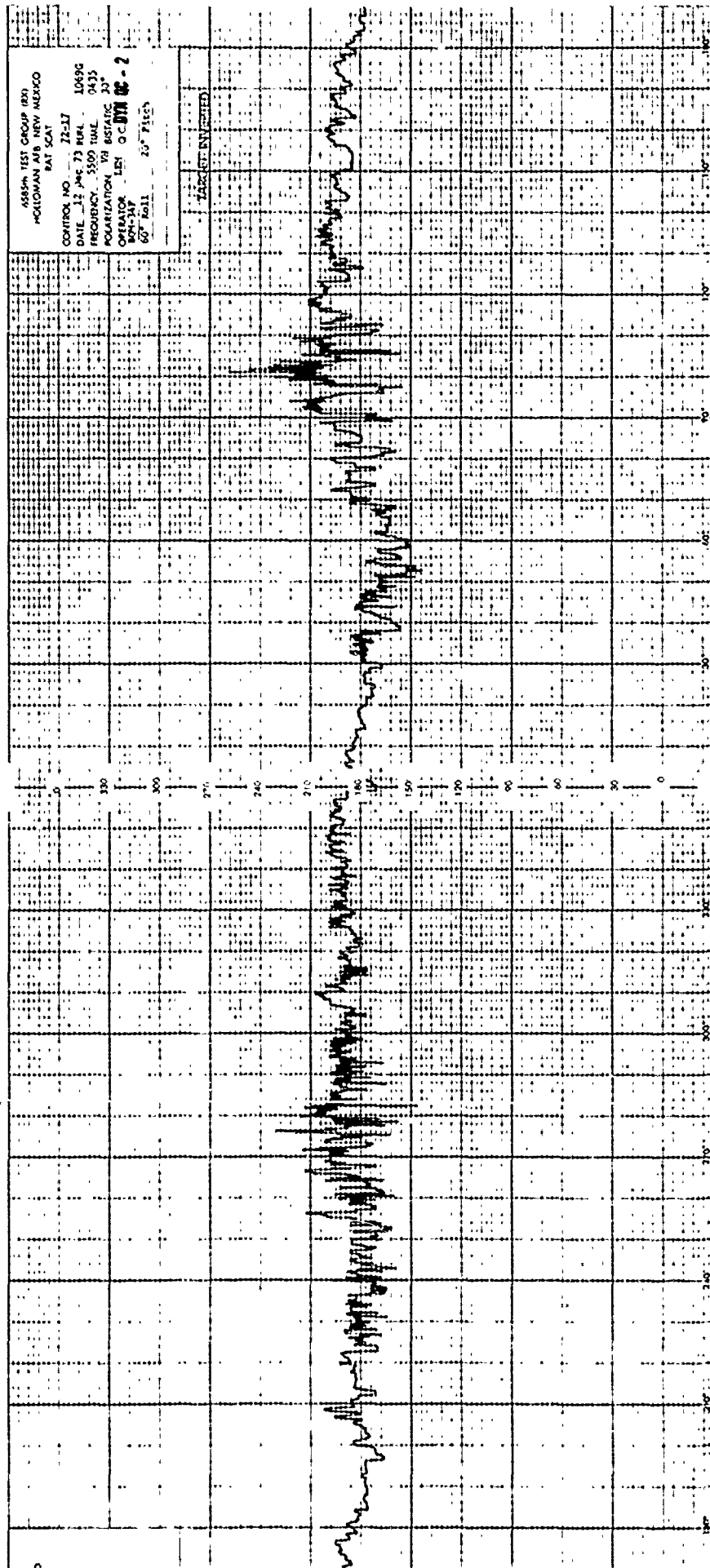


ASSIGN TEST GROUP 1971
HOLCOMAN AIR NEW MEXICO
BAT SCAT

CONTROL NO. 22-12
DATE 12 Dec 73
FREQUENCY 5500 TME
POLARIZATION VLB 275
OPERATOR LES
800-2411 275 TME

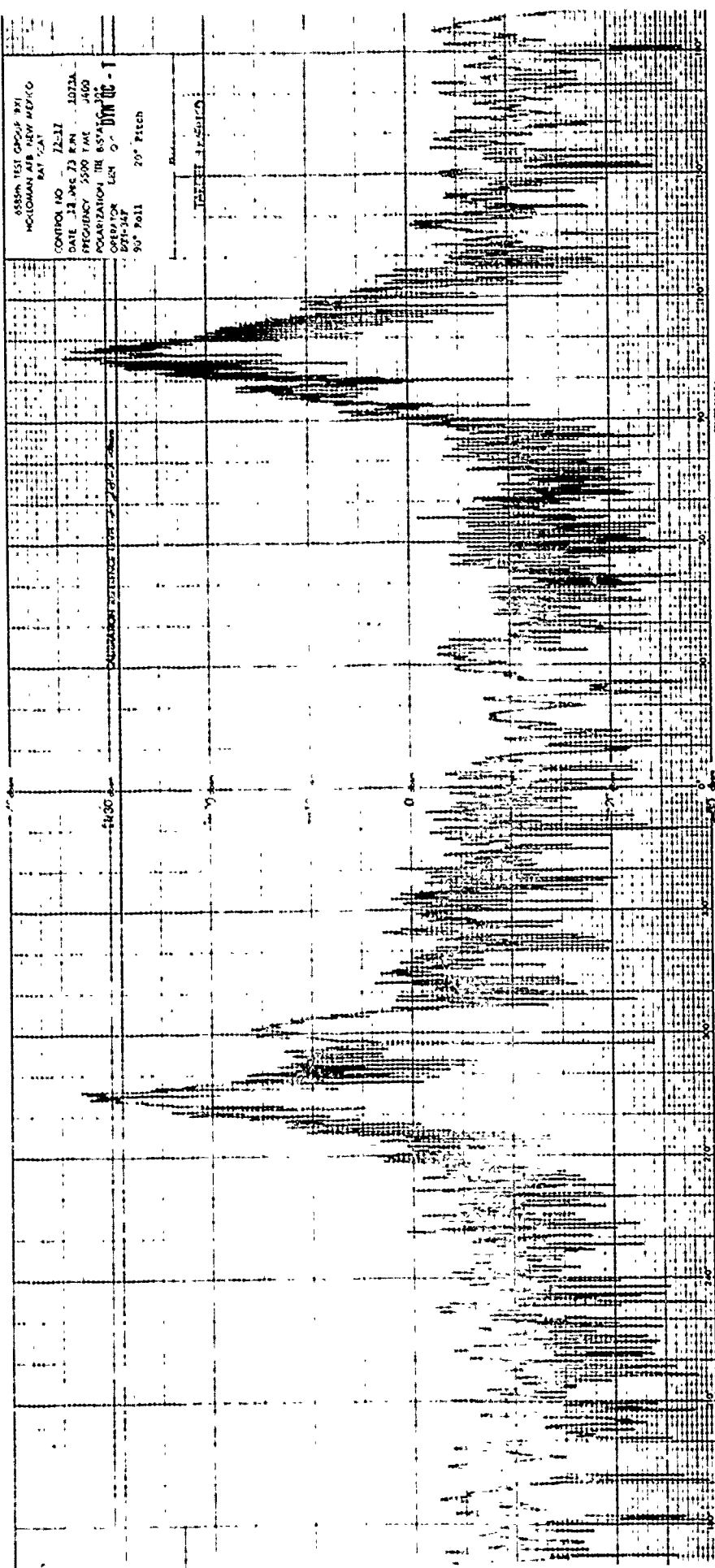
TARGET REFERENCE

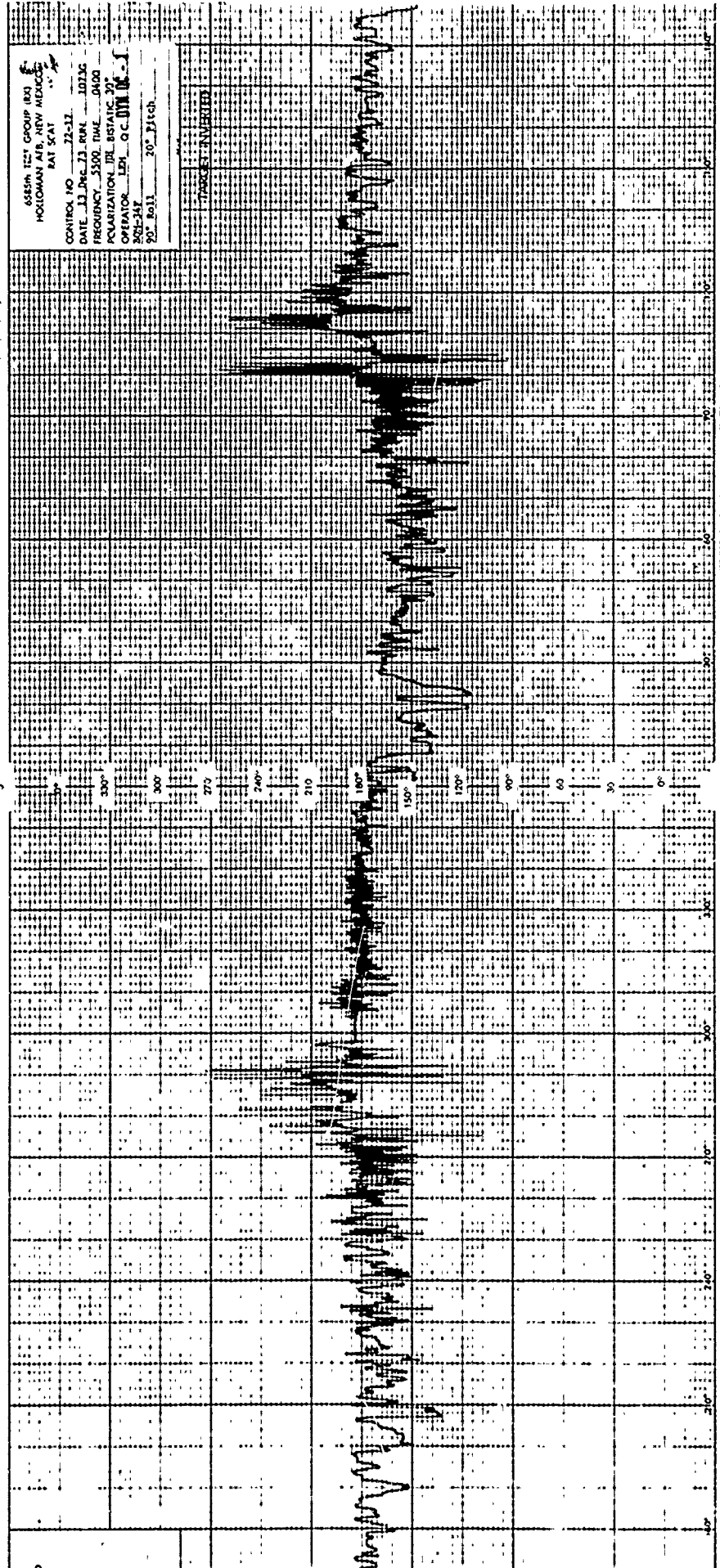
SUBSTATION REFERENCE (PUE 275 TME)

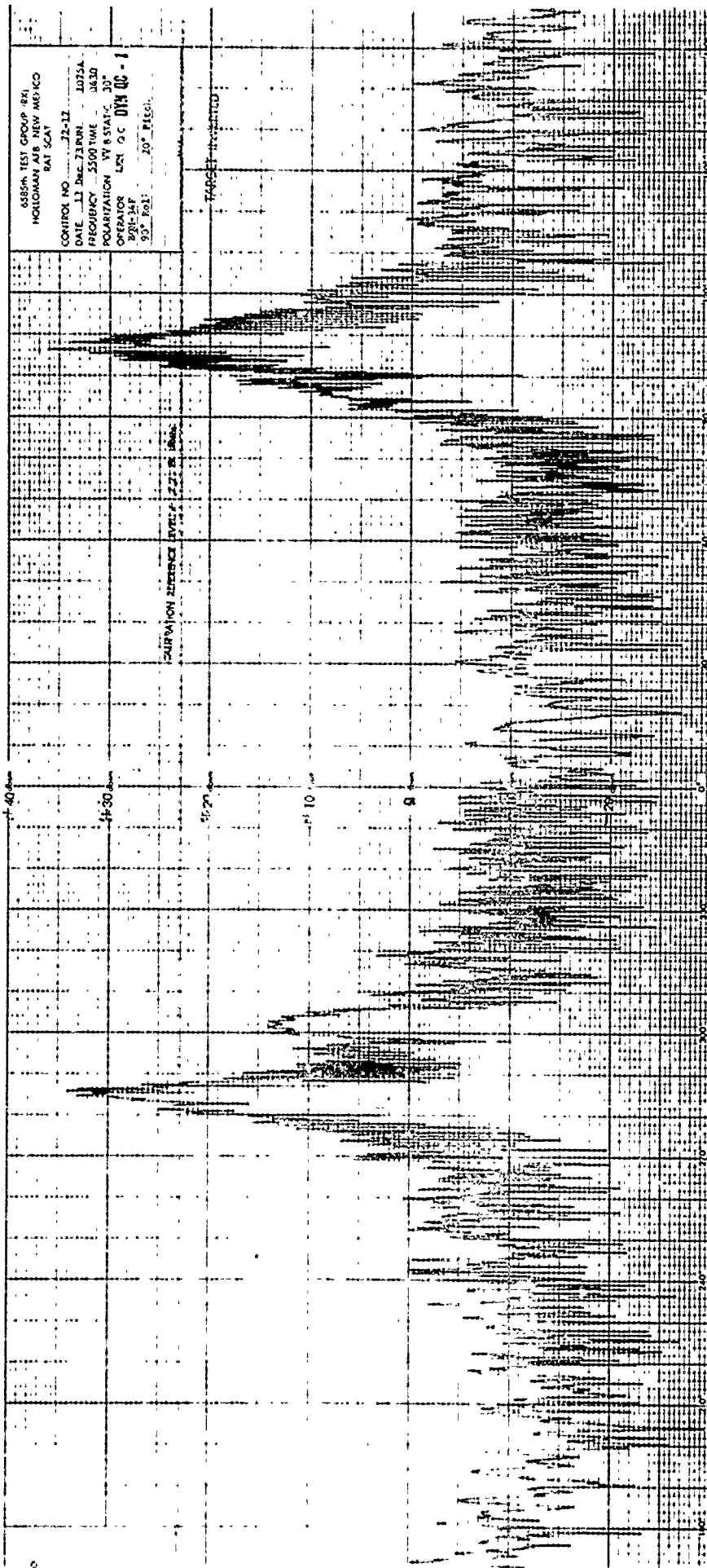


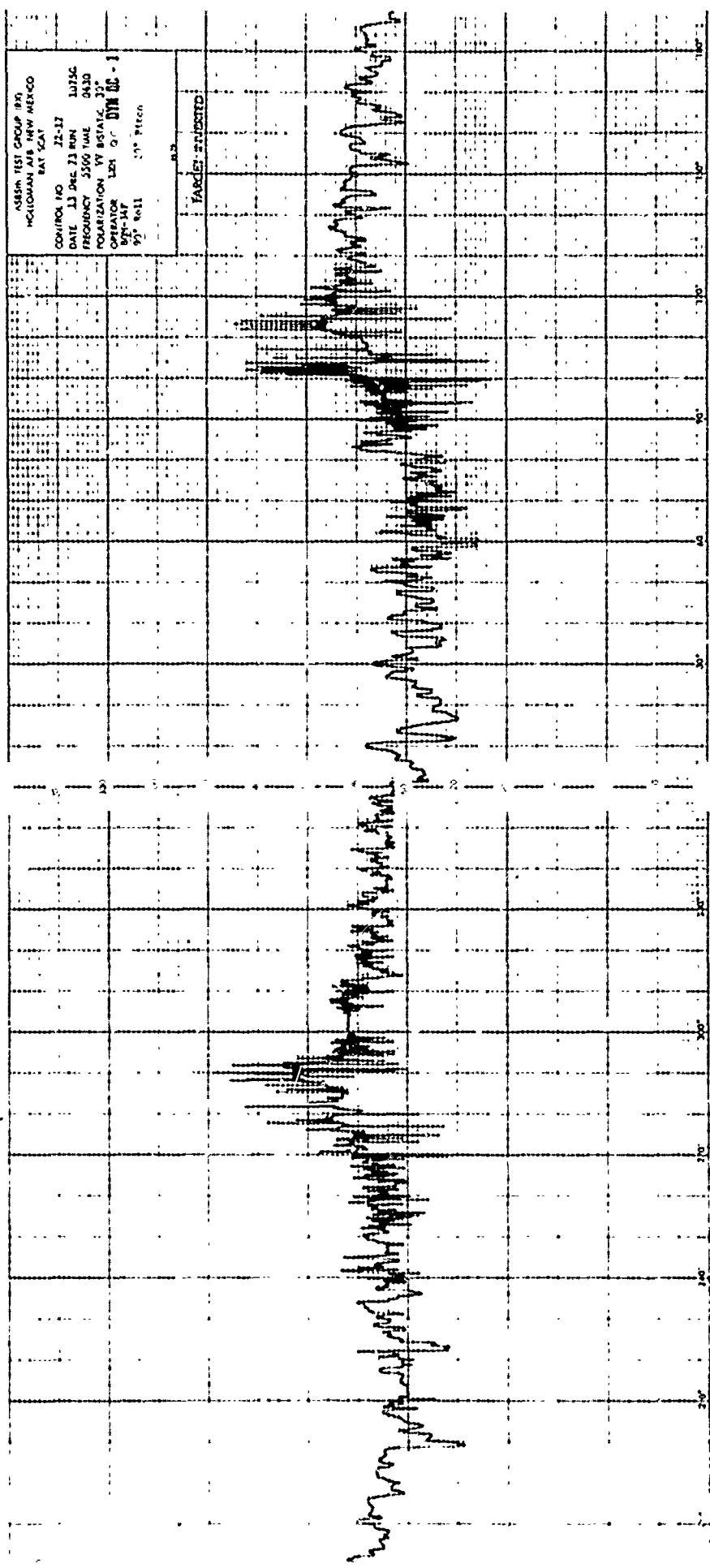
CONTROL NO - 72-37
DATE 31 DEC 73 R/N 1072A
FREQUENCY 5500 YMC 3400
POLARIZATION TH 85° A 6° 30°
OPERATOR LEM O' BRYEN - T
DTI-347
90° Roll 20° Pitch

133321







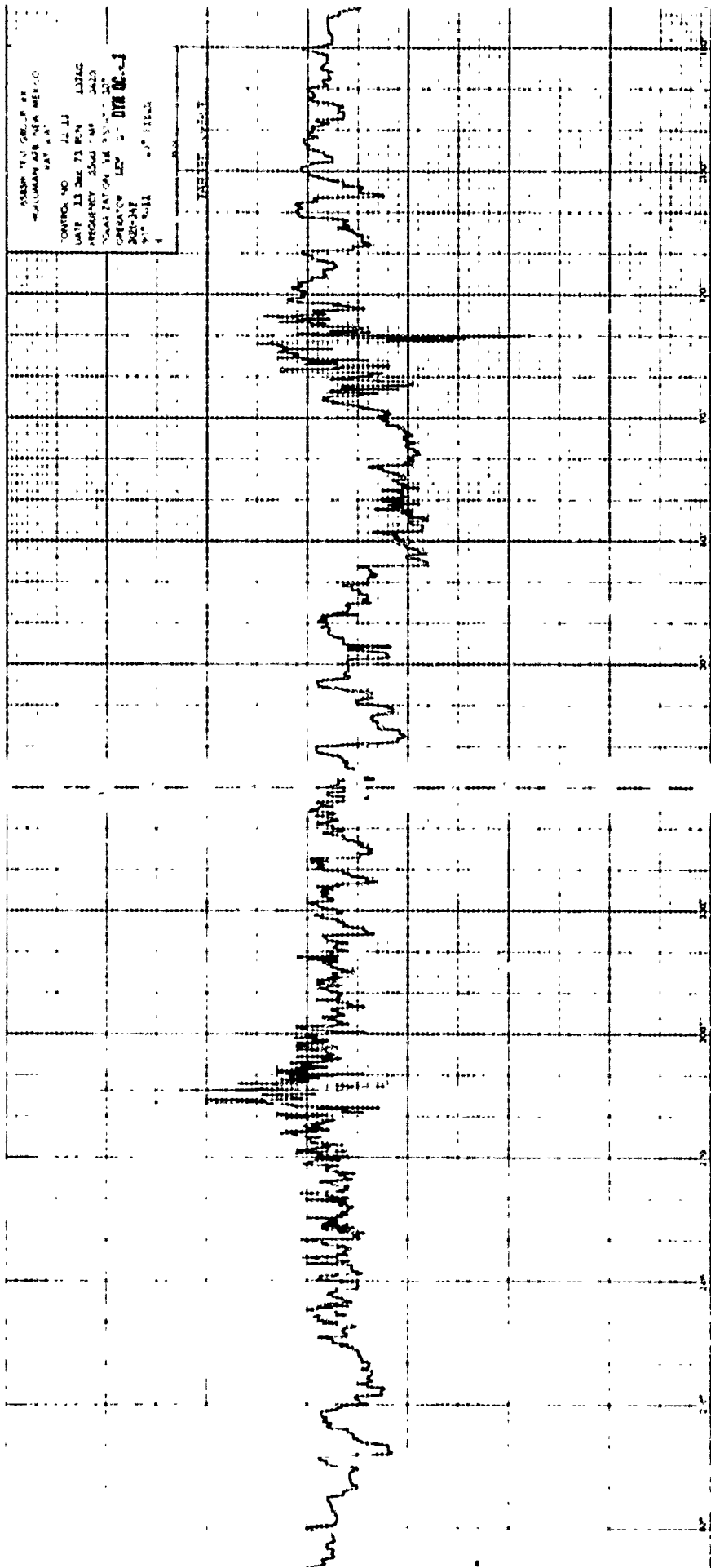


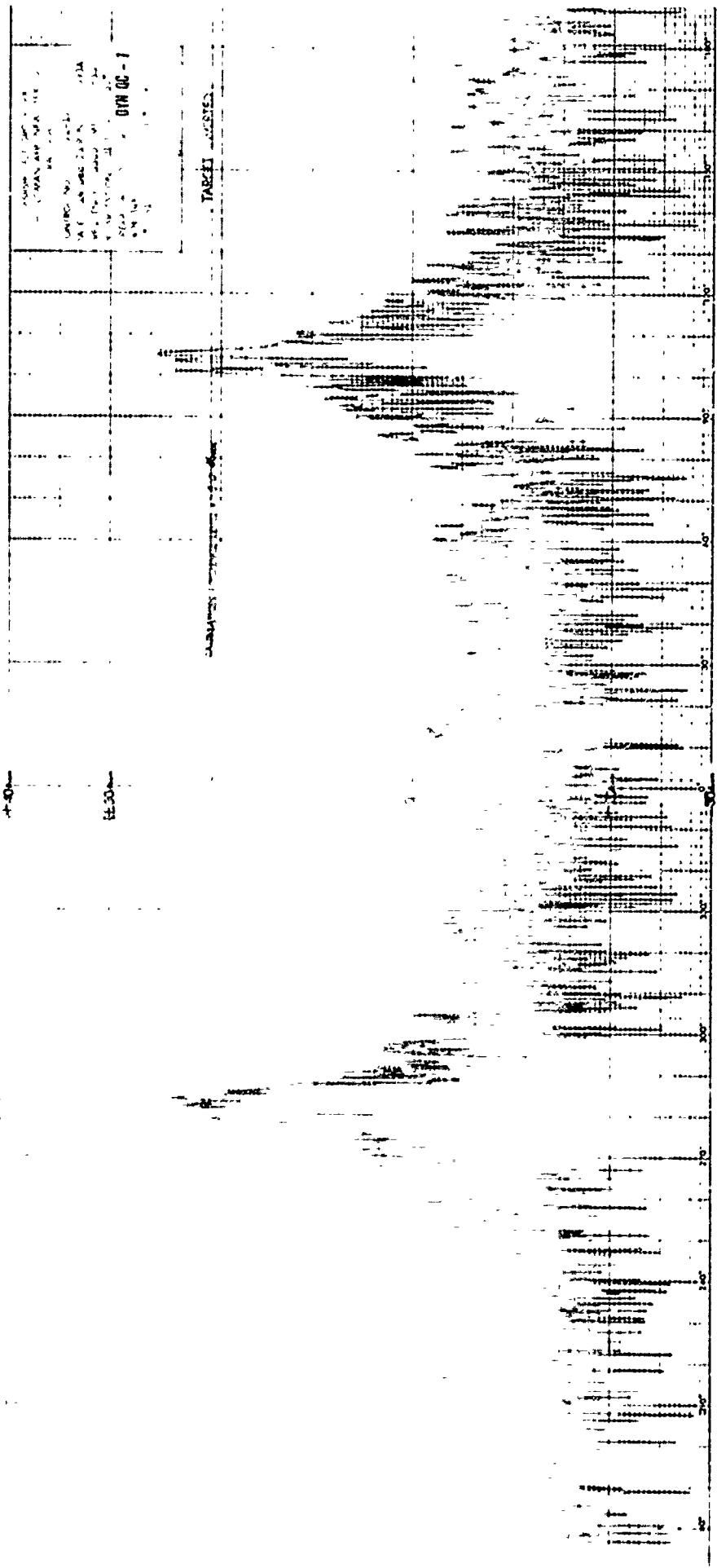
1-30

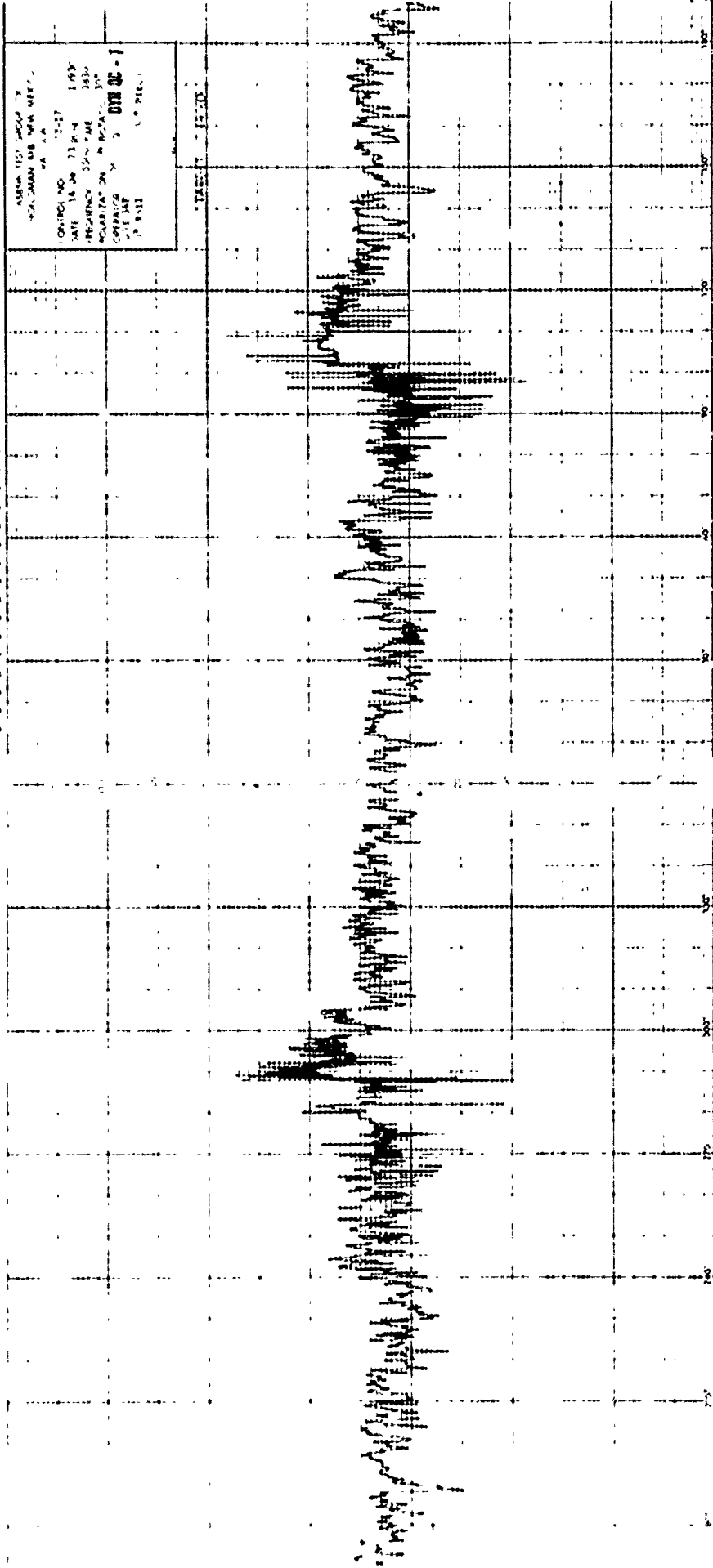
CONFIDENTIALITY

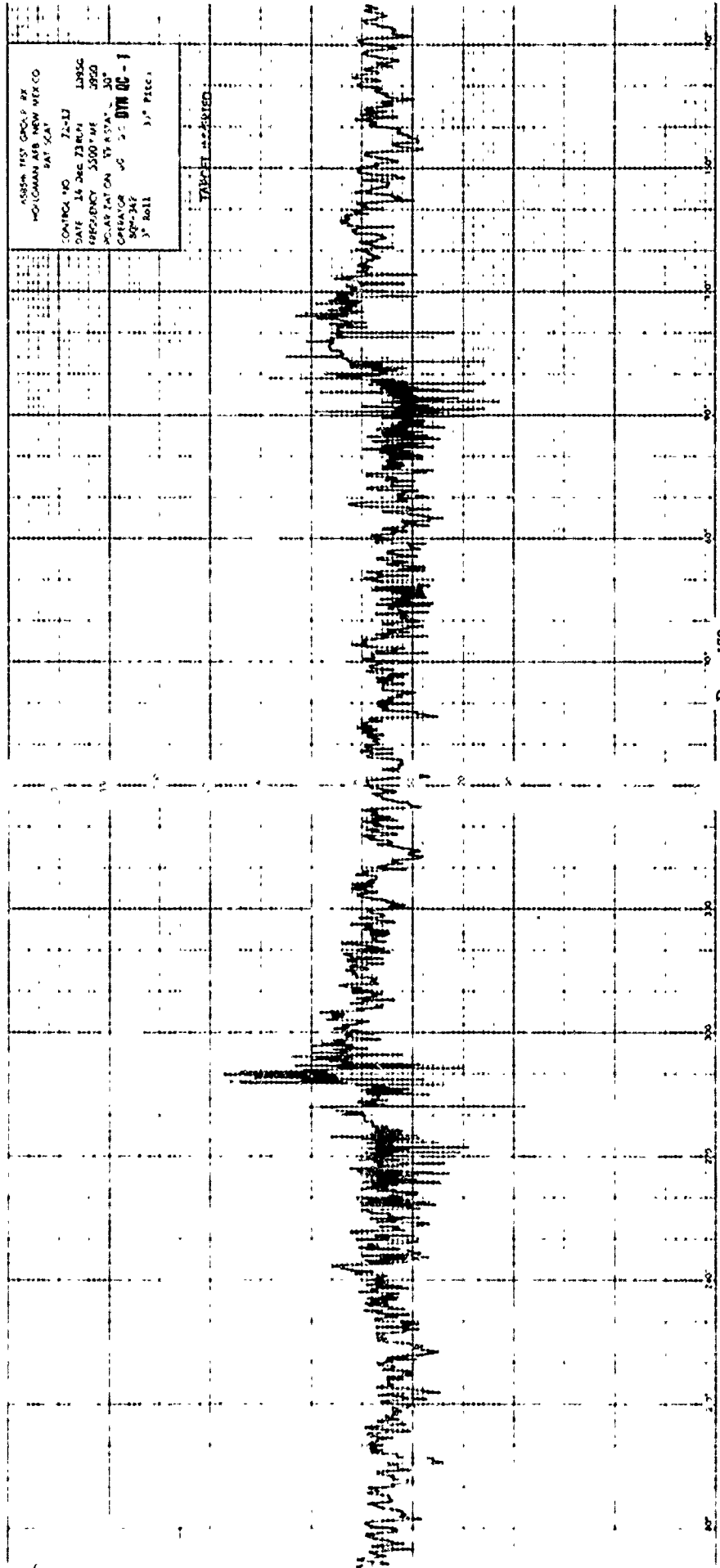
Index

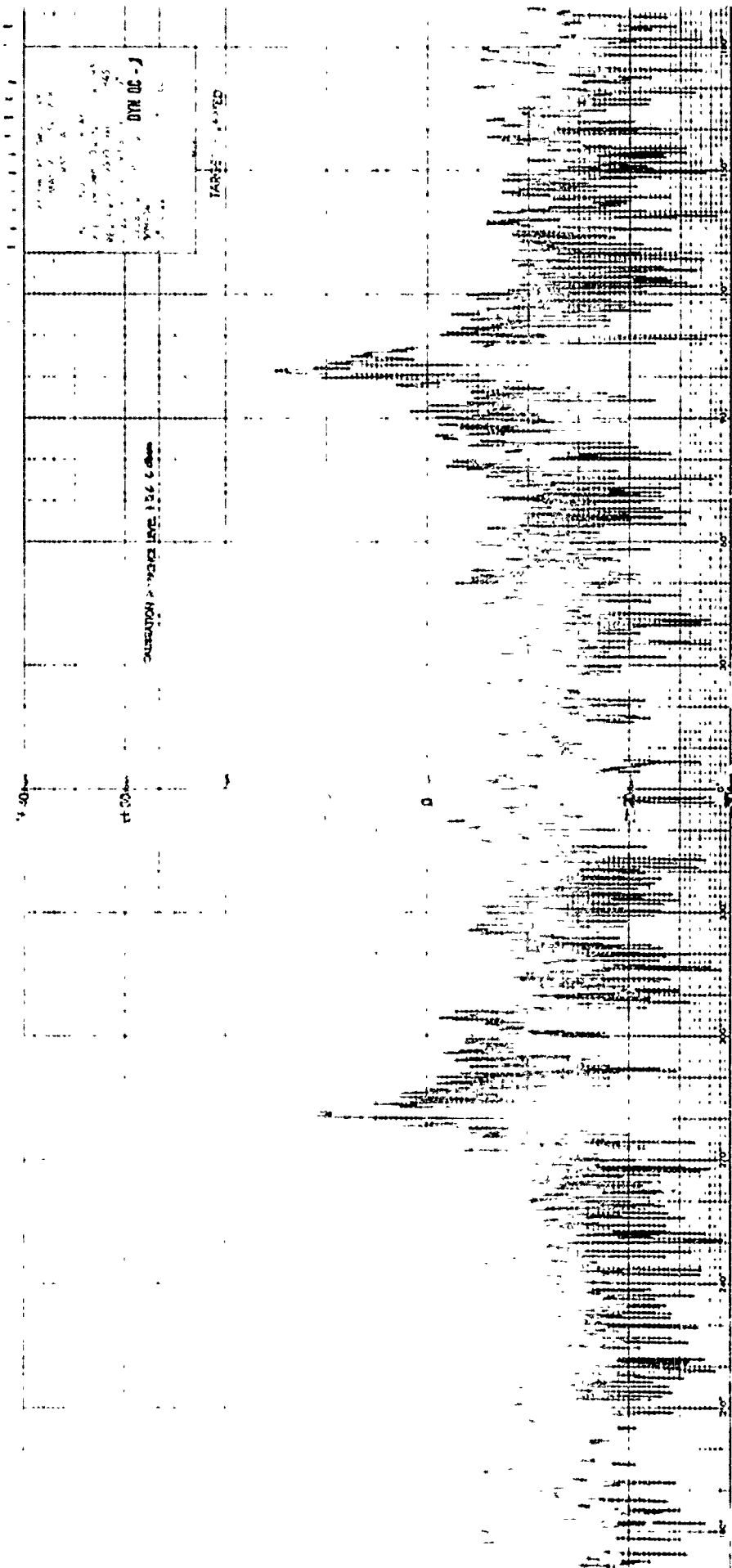
Page 174











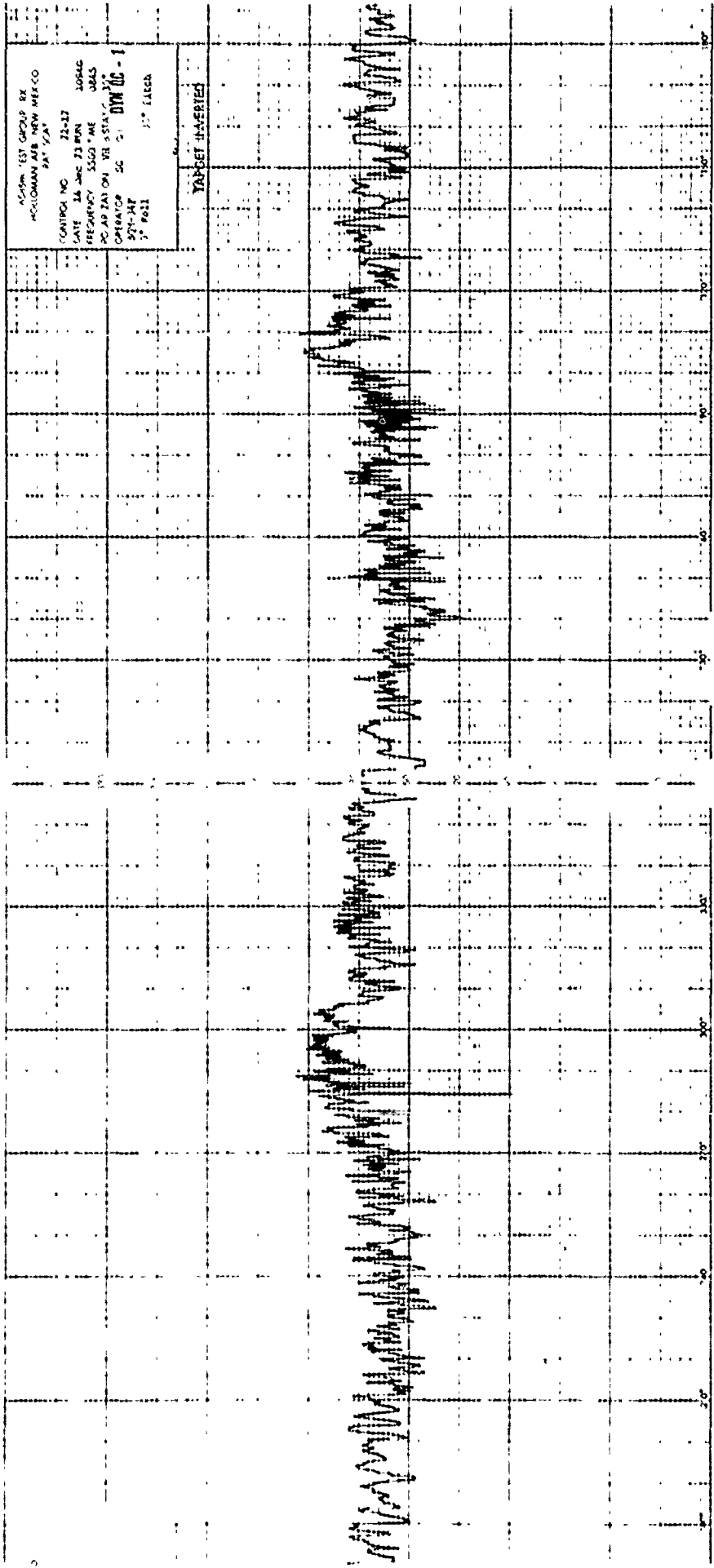
TARE

QUANTIFICATION OF THE

DATA

1500m TEST GROUP BY
 MCCLONAN AIR NEW MEXICO
 24 JUL 74
 CONTROL NO 72-17
 DATE 14 JUNE 73 RUN 1054G
 FREQUENCY 5500 MHz 0245
 PC AP ZAI ON VE 551A 1/2
 ORBITOR SC 01 DYN 00-1
 574-247
 5° 46.21 15° 14.00

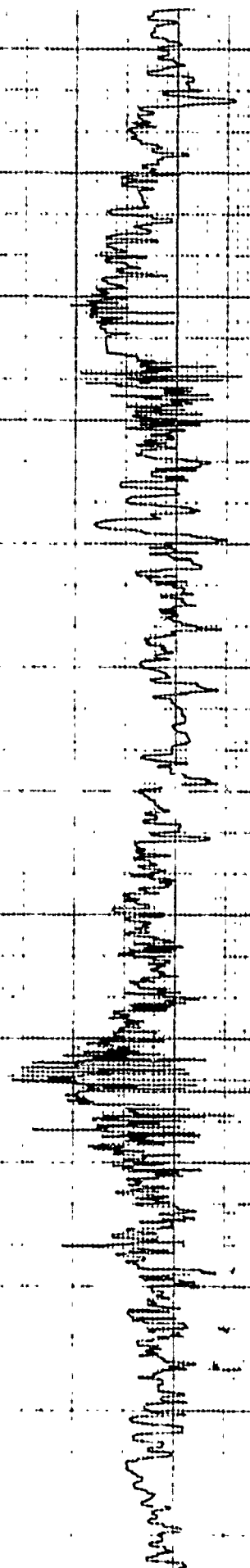
TARGET INVERTED



AGSM TEST GROUP #1
NOTIONMAN AIR NEW MEXICO
SAT 201

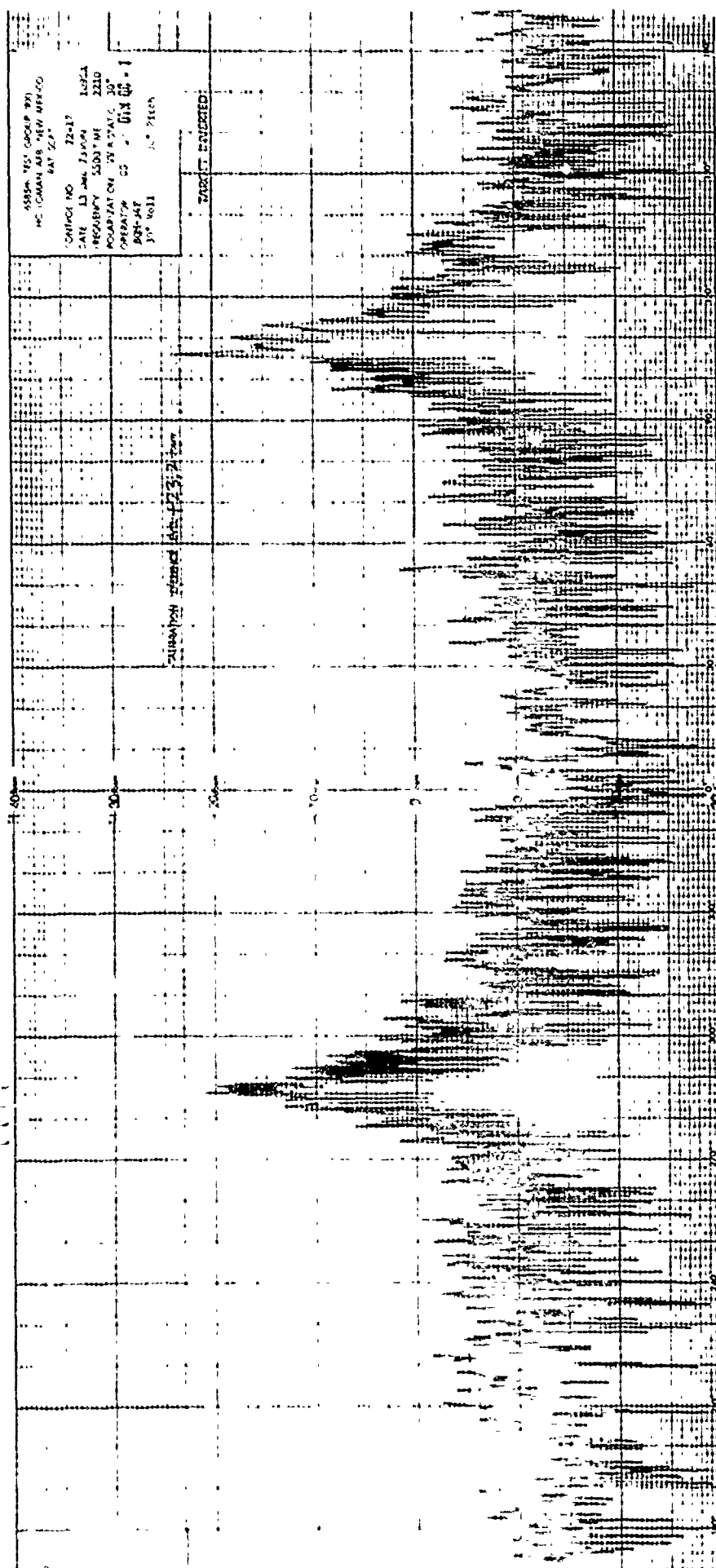
CONTROL NO 22-17 1091G
DATE 13 Dec 73 RPA 2230
FREQUENCY 5500 TAE 2230
ACQUISITION 80 85AF 30°
OPERATOR GS 2C DYN QC-1
BOM-3AF 30° Roll 30° Pitch

TARGET INVERTED



UNITED NO. 72-17
DATE 13 JUL 1964 1824
REQUENCY 5500 MHz 2210
COORDINATION 17 W 21 N 30°
OPERATION 05 01X 00 -
RQ-46
30° 40' 11" N 10° 21' 00" W

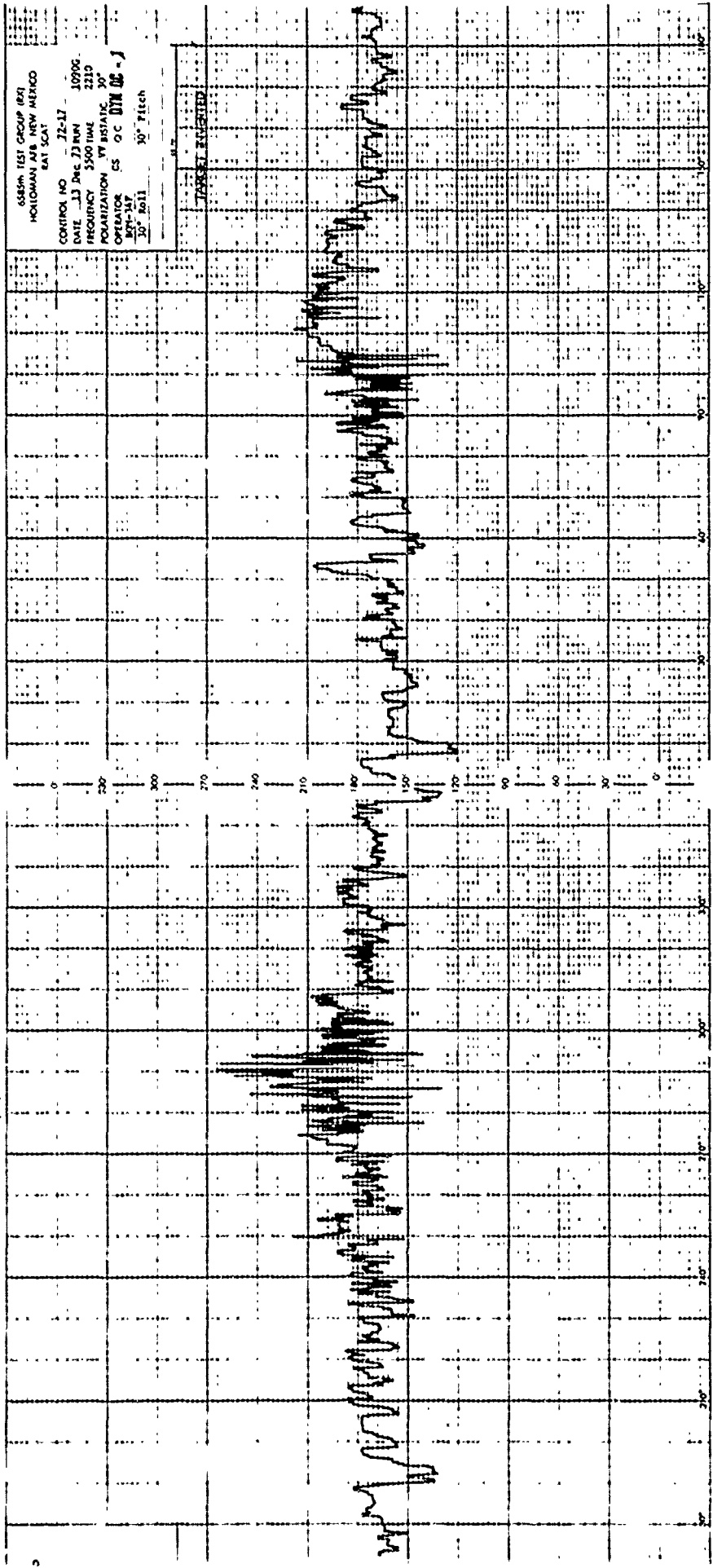
2012-12-28

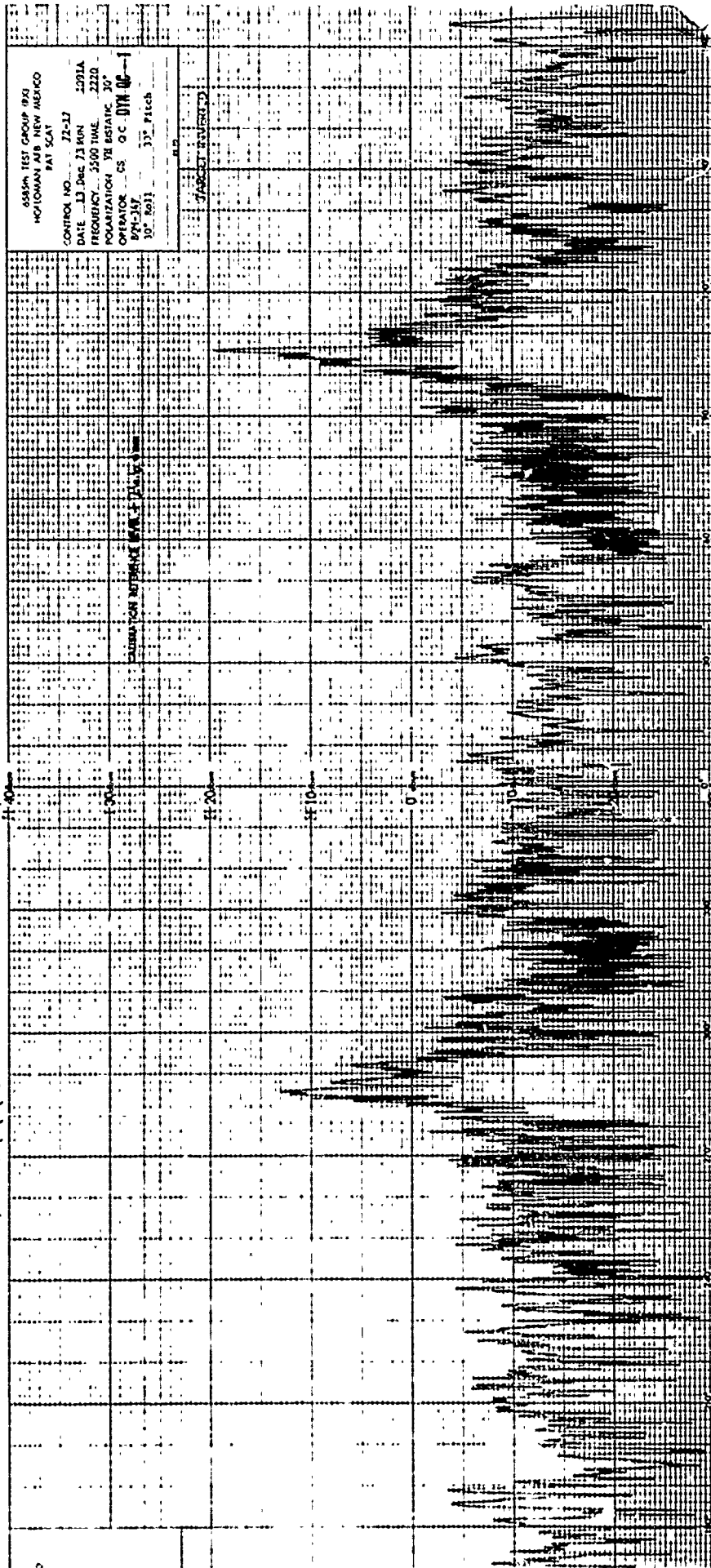
[illegible]

658th TEST GROUP (B2)
HOLLAMAN AFB NEW MEXICO
EAT SCAT

CONTROL NO - 72-17
DATE 13 Dec 73 RUN 10906
FREQUENCY 5500 MHz 2210
POLARIZATION W/ BISTATIC 30°
OPERATOR CS G/C DYN OG - J
30° 2011 30° 712ch

TARGET RUMBLING

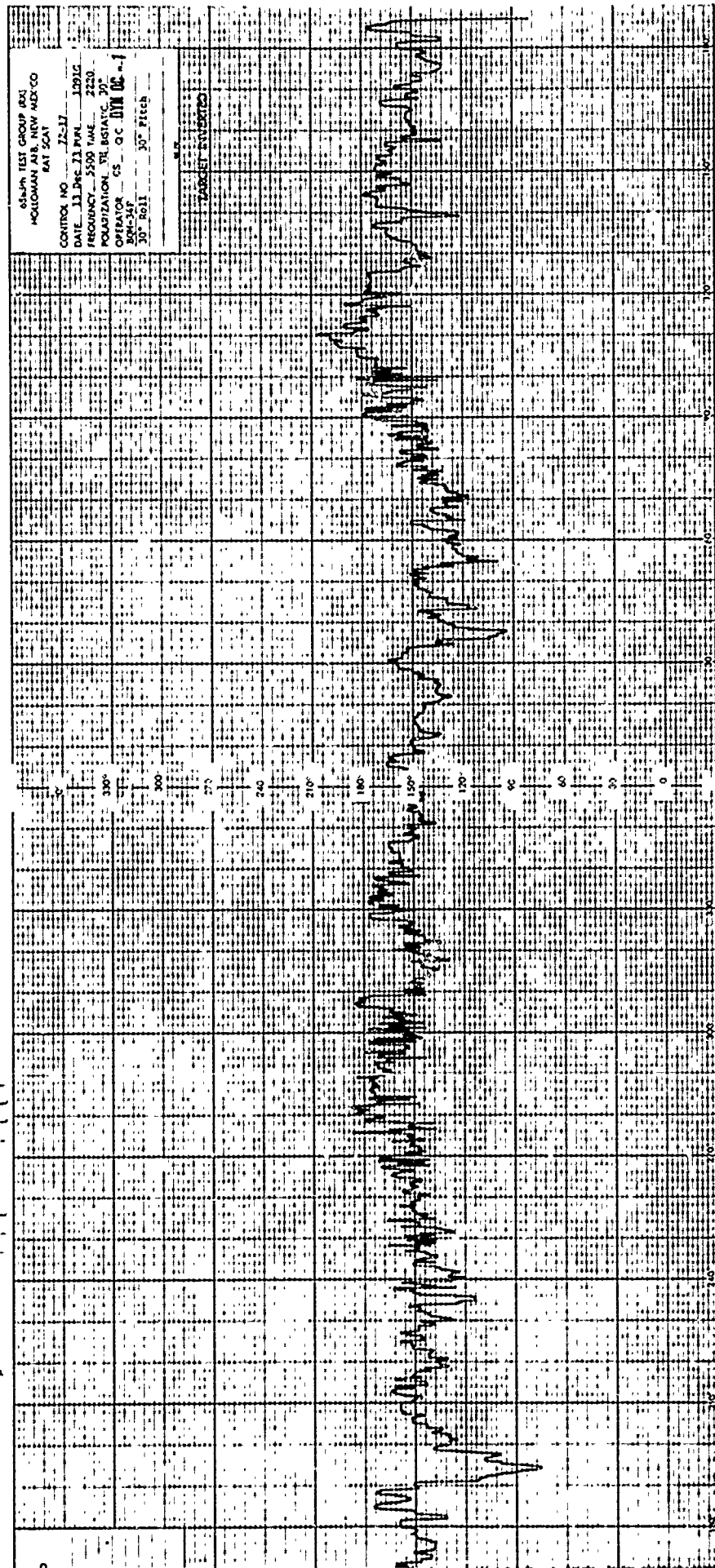


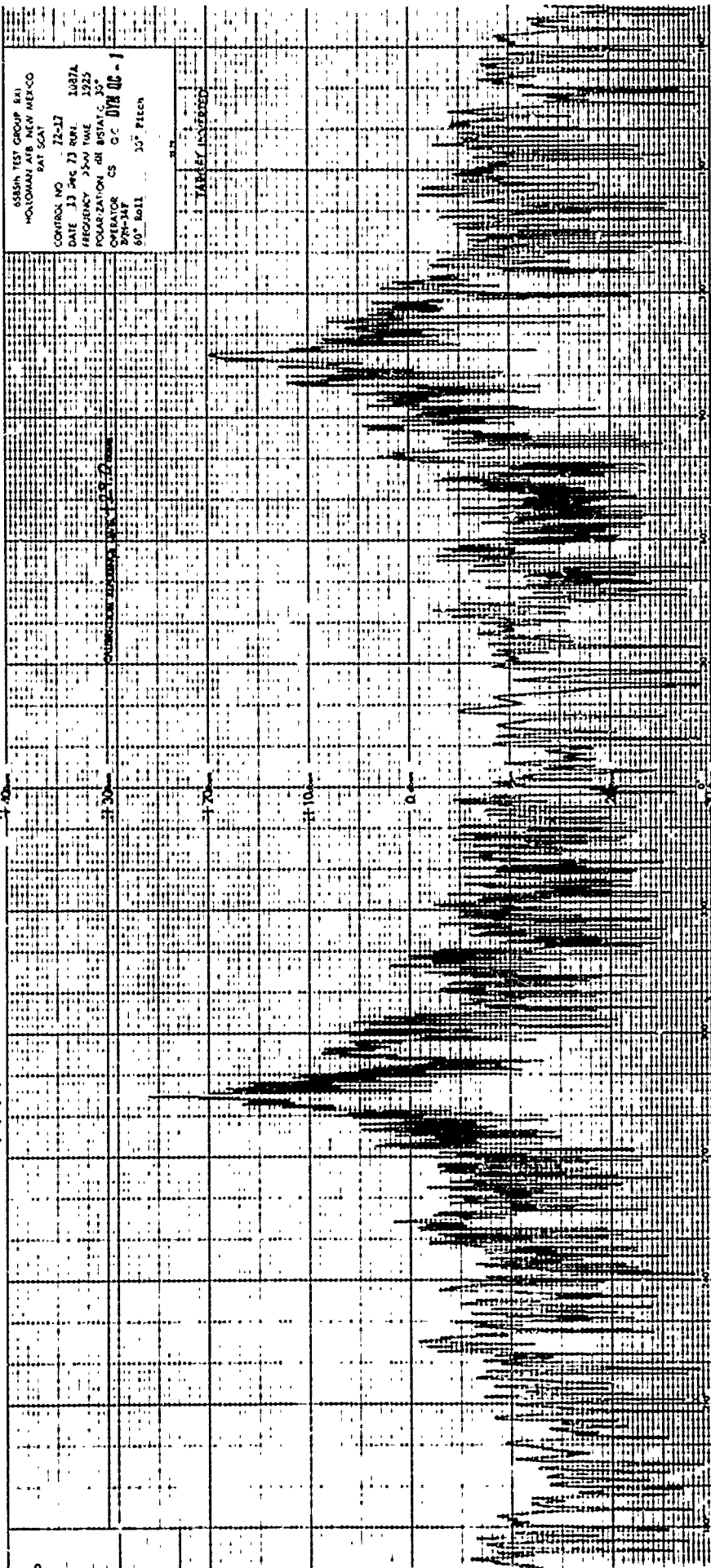


6585M TEST GROUP 9XJ
HOTIOMAN AIR NEW MEXICO
PAT SCAT
CONTROL NO. 22-17
DATE 13 Dec 71 RUN 1201A
FREQUENCY 2500 TIME 2220
POLARIZATION VE ESTATIC 30°
OPERATOR CS O.C. DYN OC-1
BY: 137
10° Roll 33° Pitch

TARGET RETURNED

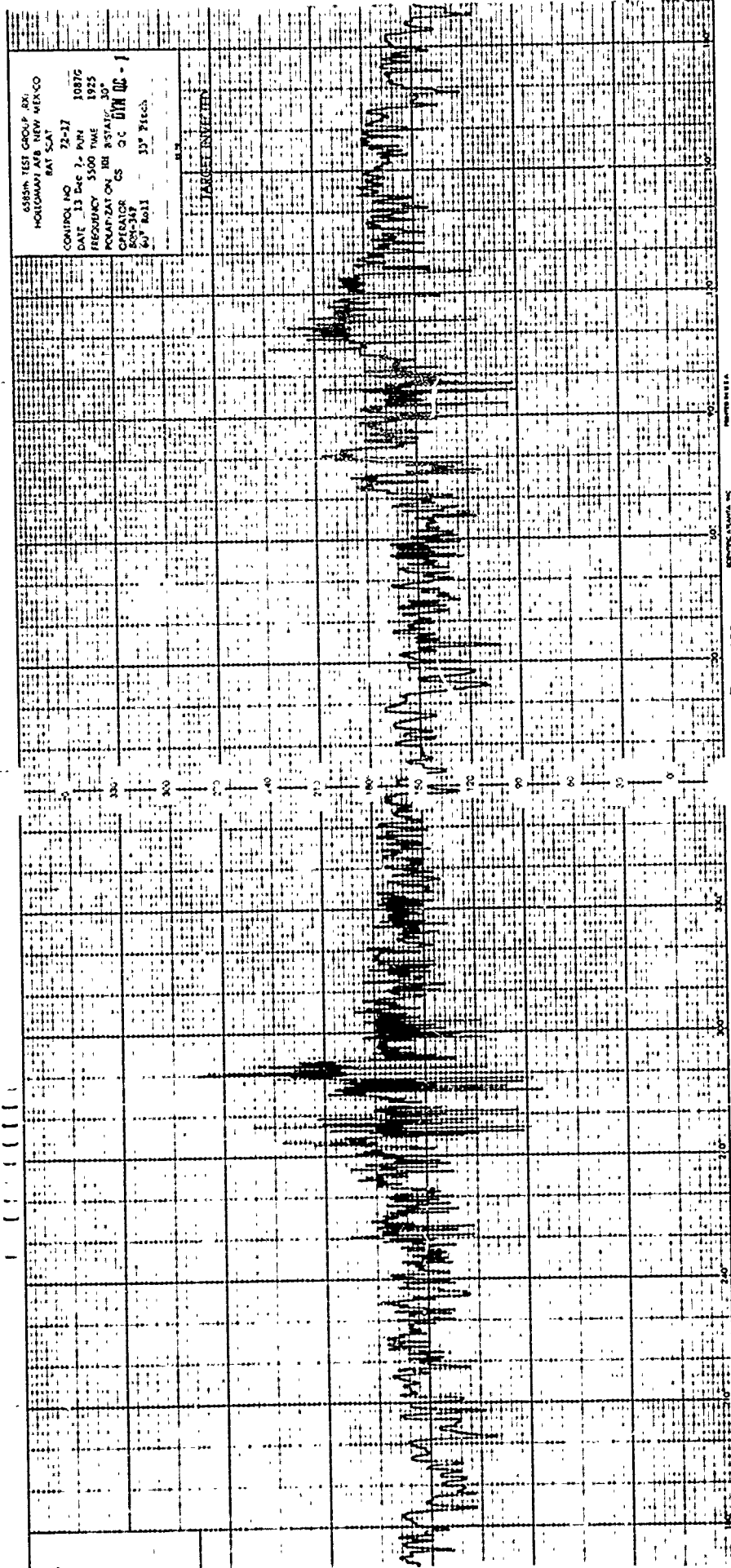
ELIMINATION RETURNED MARK 1





6550N TEST GROUP 841
HOLCOMAN AFB NEW MEXICO
EAT SCAT

CONTROL NO 72-37 1087A
DATE 13 DEC 73 RUN 1225
FREQUENCY 5500 KHz
POLARIZATION RH BSTAT C 30°
OPERATOR CS CC 0708 00 - 1
284-347
60° Roll 30° Pitch



6855A TEST C200-P BX
MO TOWAN LA 8 NEW MEXICO
8A' 2A'

CONTROL NO 72-17 1389A
DATE 13 Dec 73 TIME 2000
FREQUENCY 5500 HZ
POLARIZATION TV 8 STATE 30°
OPERATOR CS C C D H U L P F
800-147
60° Roll 30° Pitch

WAVEFORM RECORDED

4000
3000
2000
1000
0
-1000
-2000
-3000
-4000

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

1000
2000
3000
4000

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

1000
2000
3000
4000

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

1000
2000
3000
4000

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

1000
2000
3000
4000

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

1000
2000
3000
4000

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

1000
2000
3000
4000

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

1000
2000
3000
4000

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

1000
2000
3000
4000

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

1000
2000
3000
4000

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

1000
2000
3000
4000

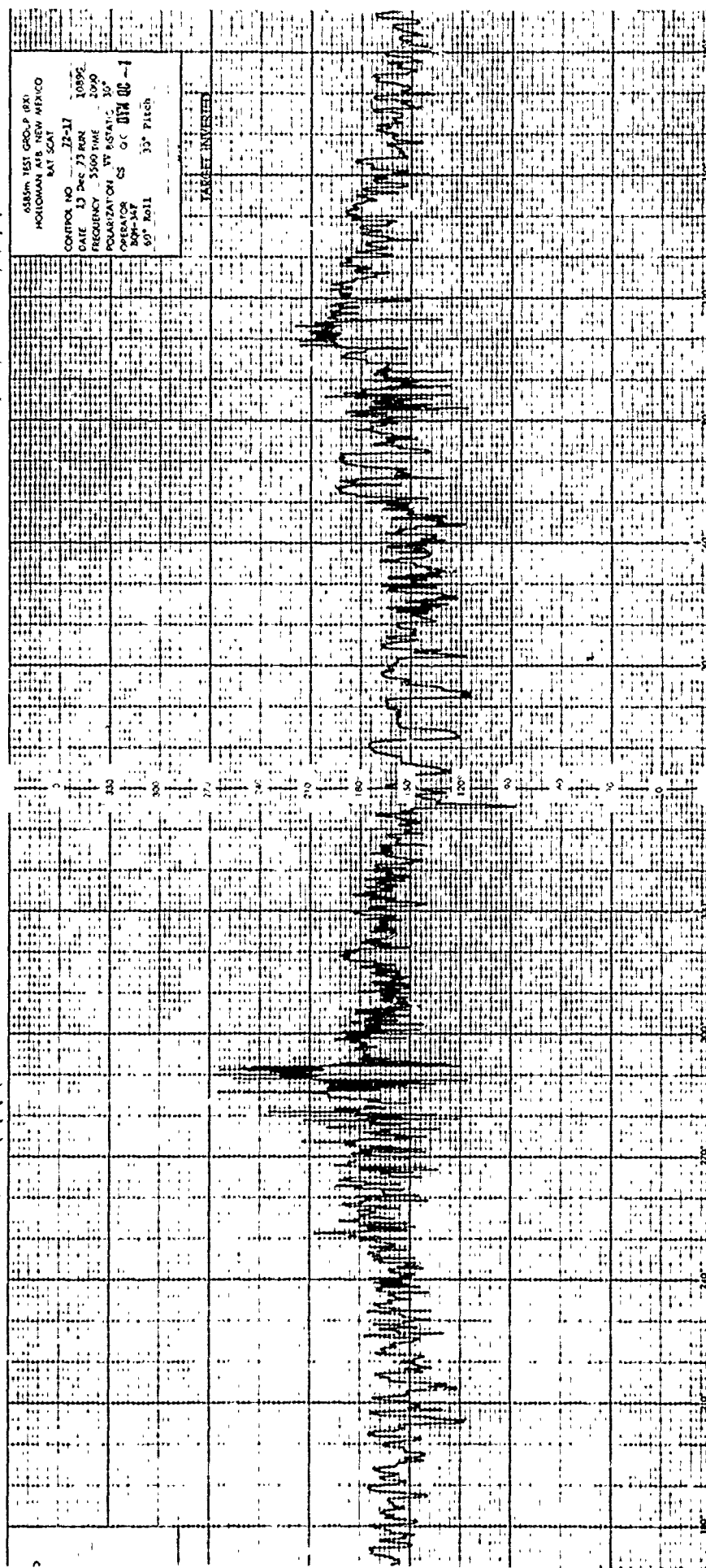
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

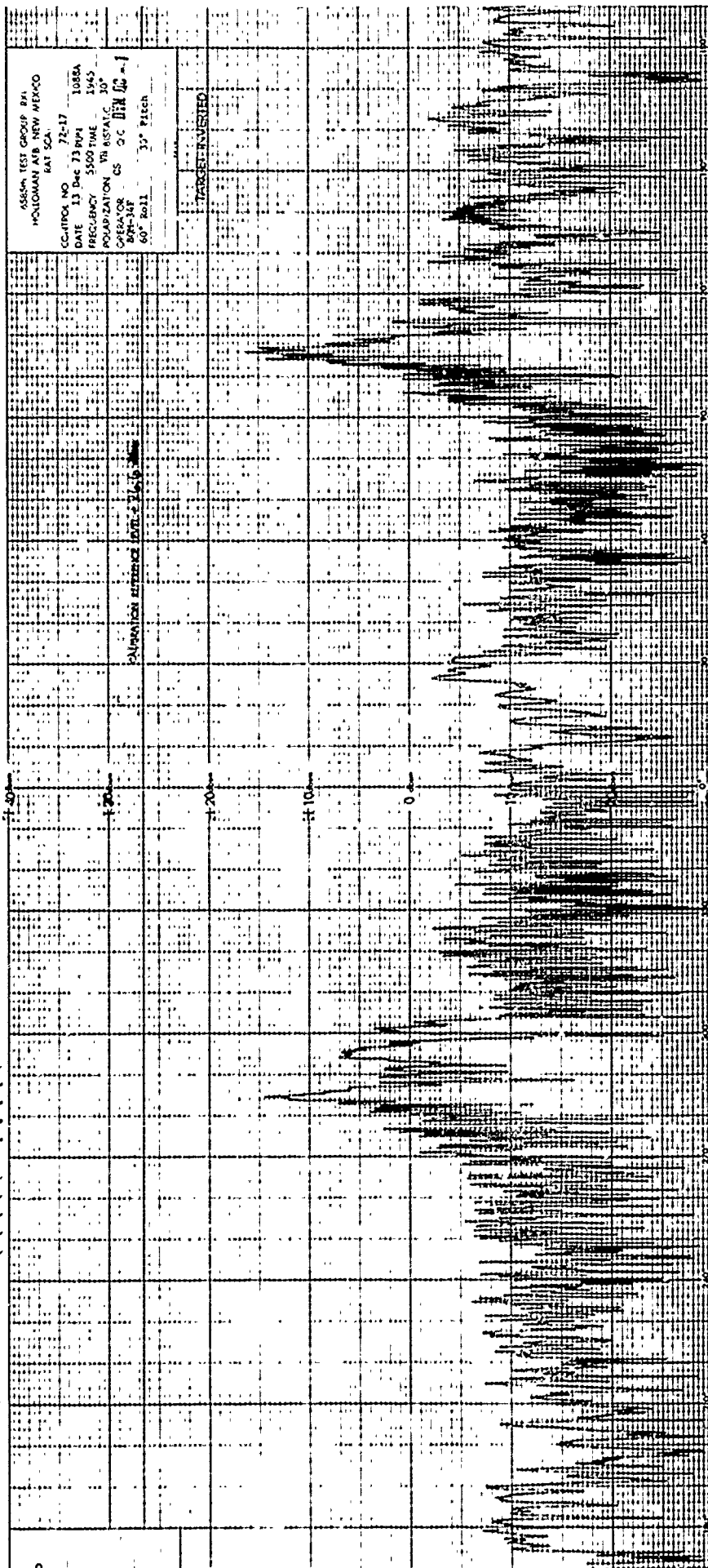
1000
2000
3000
4000

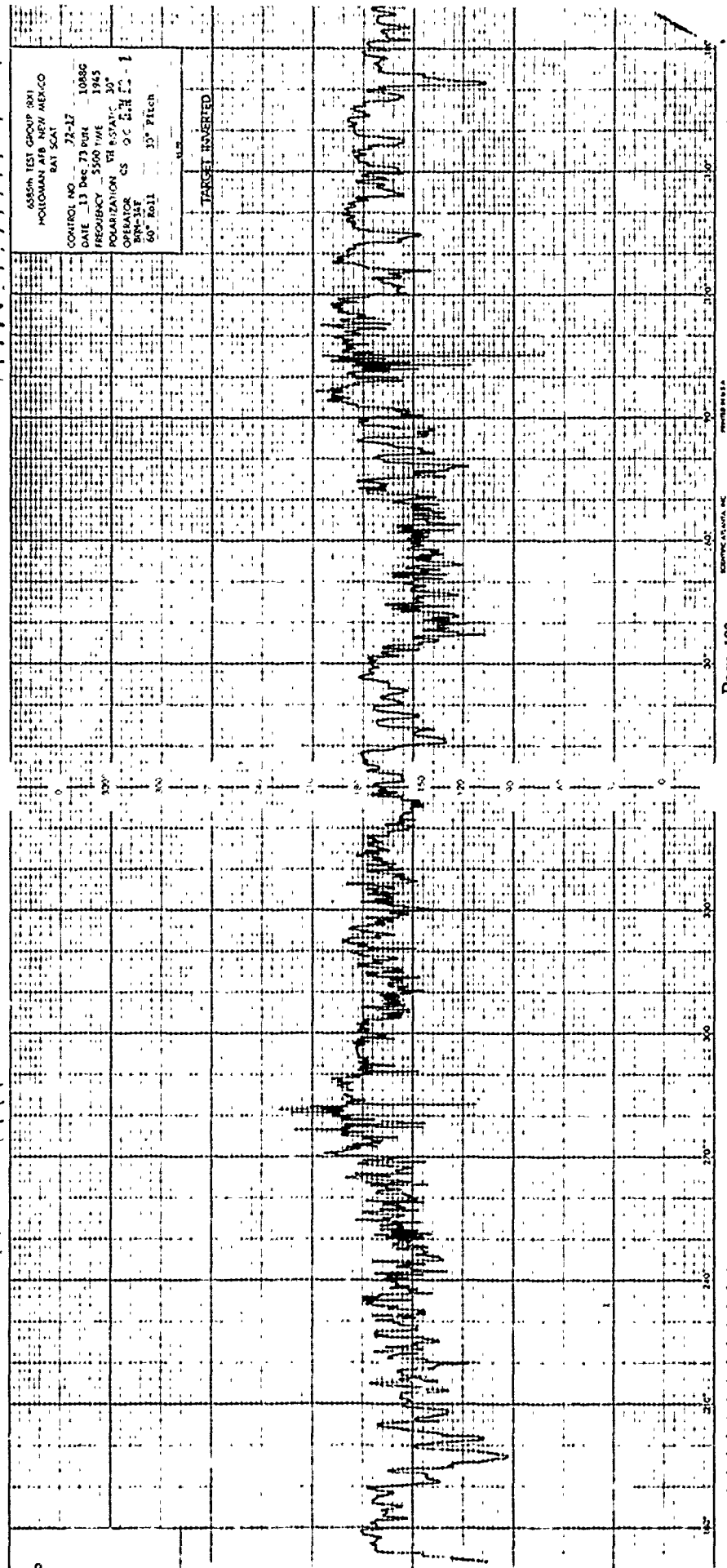
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29

ALMA MATER - 1953

Page 190

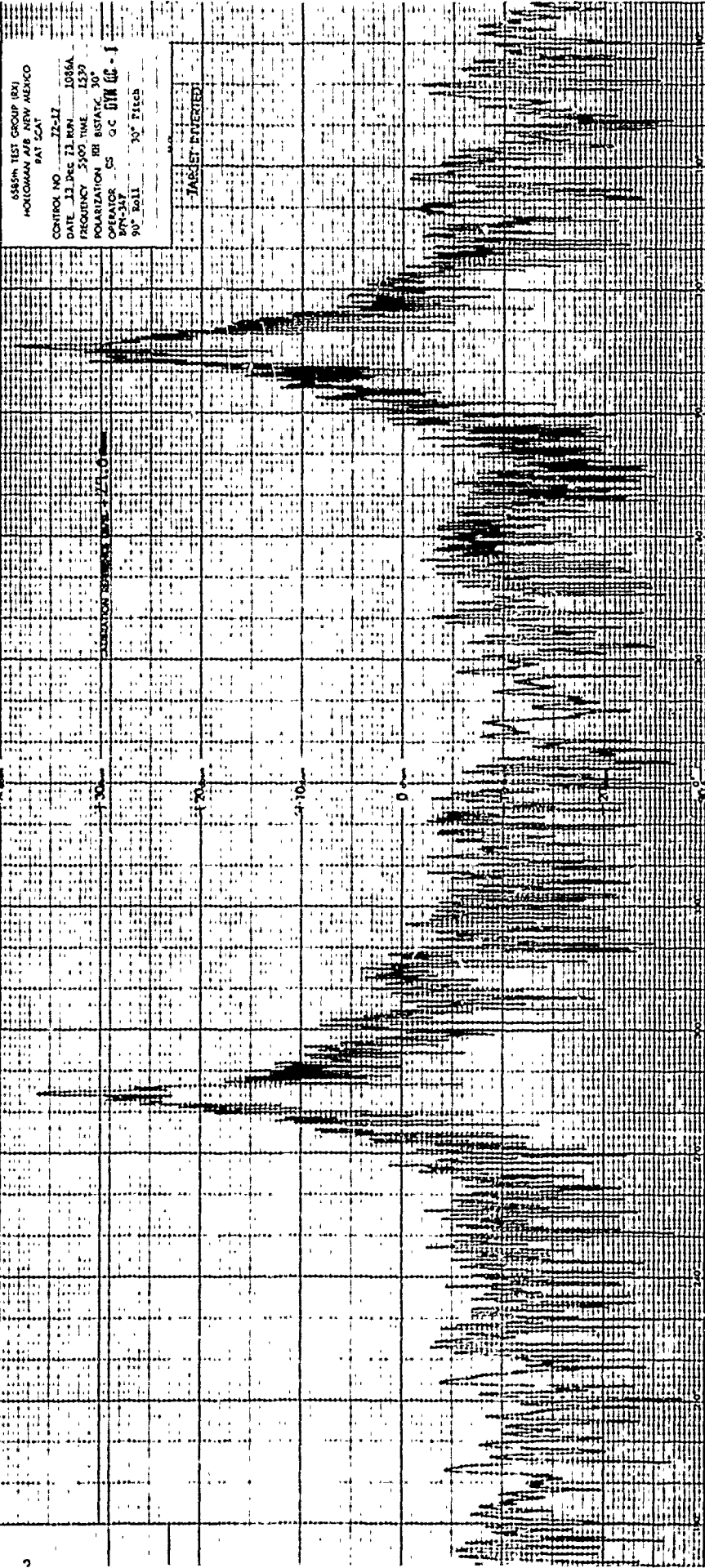


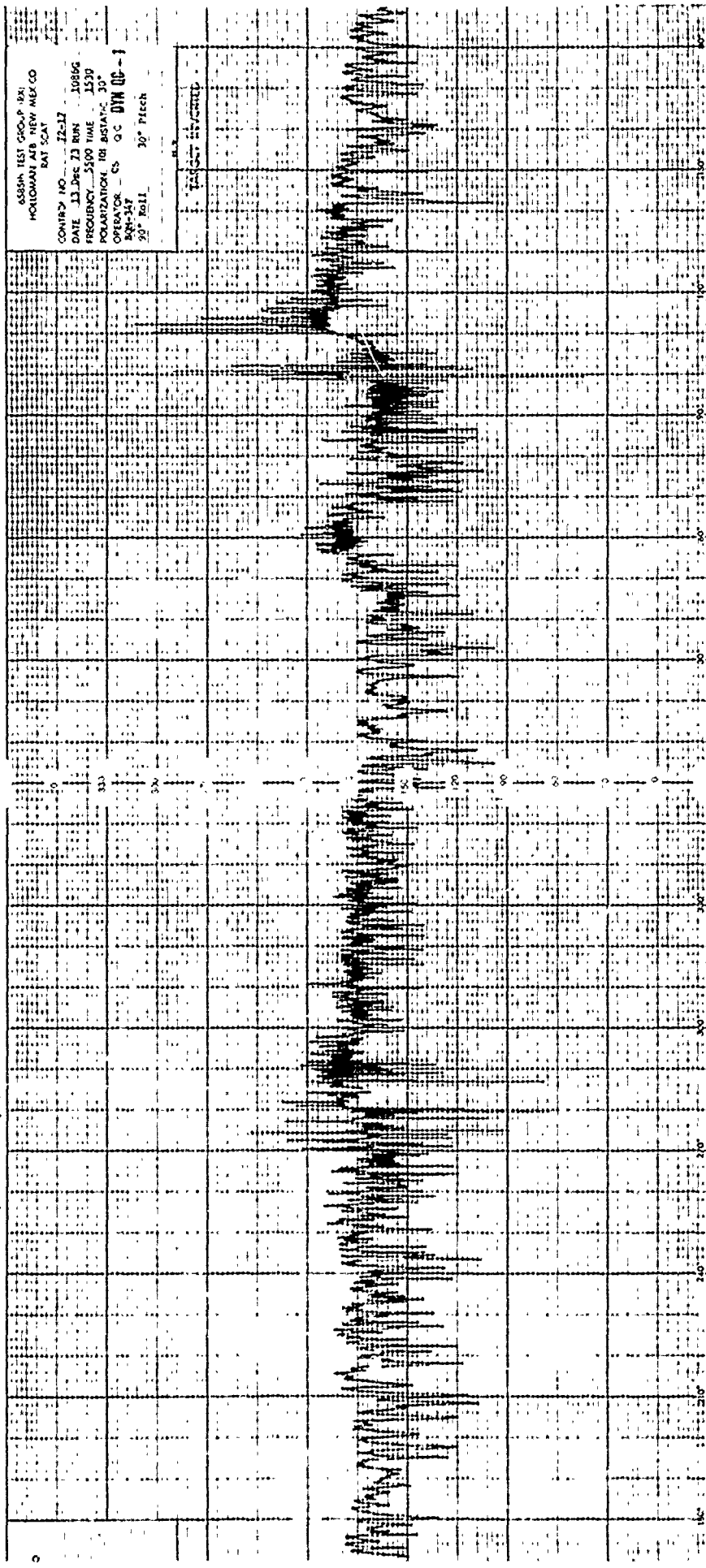




6550th TEST GROUP (BX)
 HONOLULU AIR NEW MEXICO
 BAT SCAT
 CONTROL NO. 22-17
 DATE 11 DEC 71 1036A
 FREQUENCY 5500 TIME 1230
 POLARIZATION RH BISTATIC 30
 OPERATOR CS QC DTN 00-1
 87N-347
 90° Roll 30° Pitch

TARGET ENRIEVED





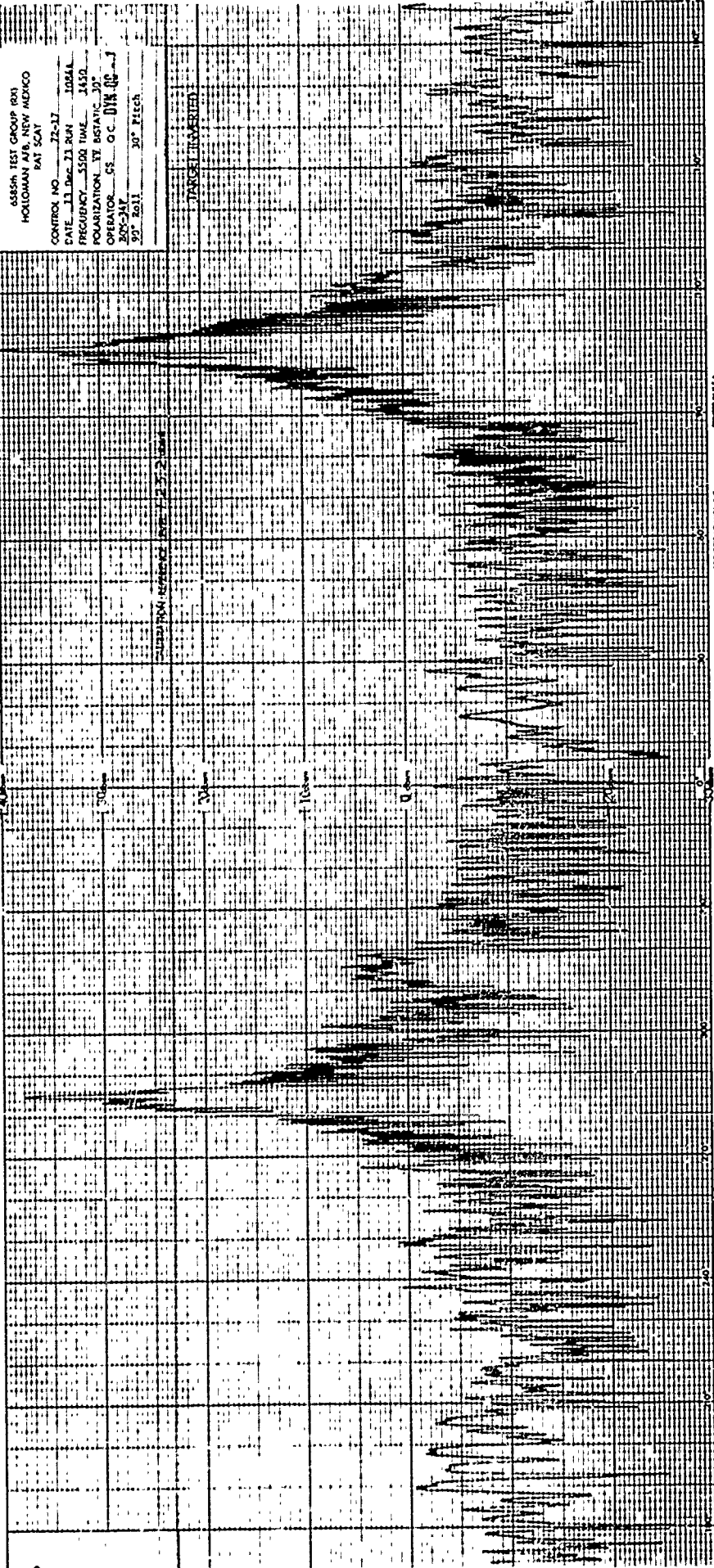
6588th TEST GROUP (B)
HOLLAND AIR NEW MEX CO
BAT SCAT
CONTR NO. 22-17
DATE 13 Dec 73 RUN 1086G
FREQUENCY 5500 TIME 1530
POLARIZATION 101 BISTATIC 30
OPERATOR CS GC DTH QP - 1
44-547
30° Roll 30° Pitch

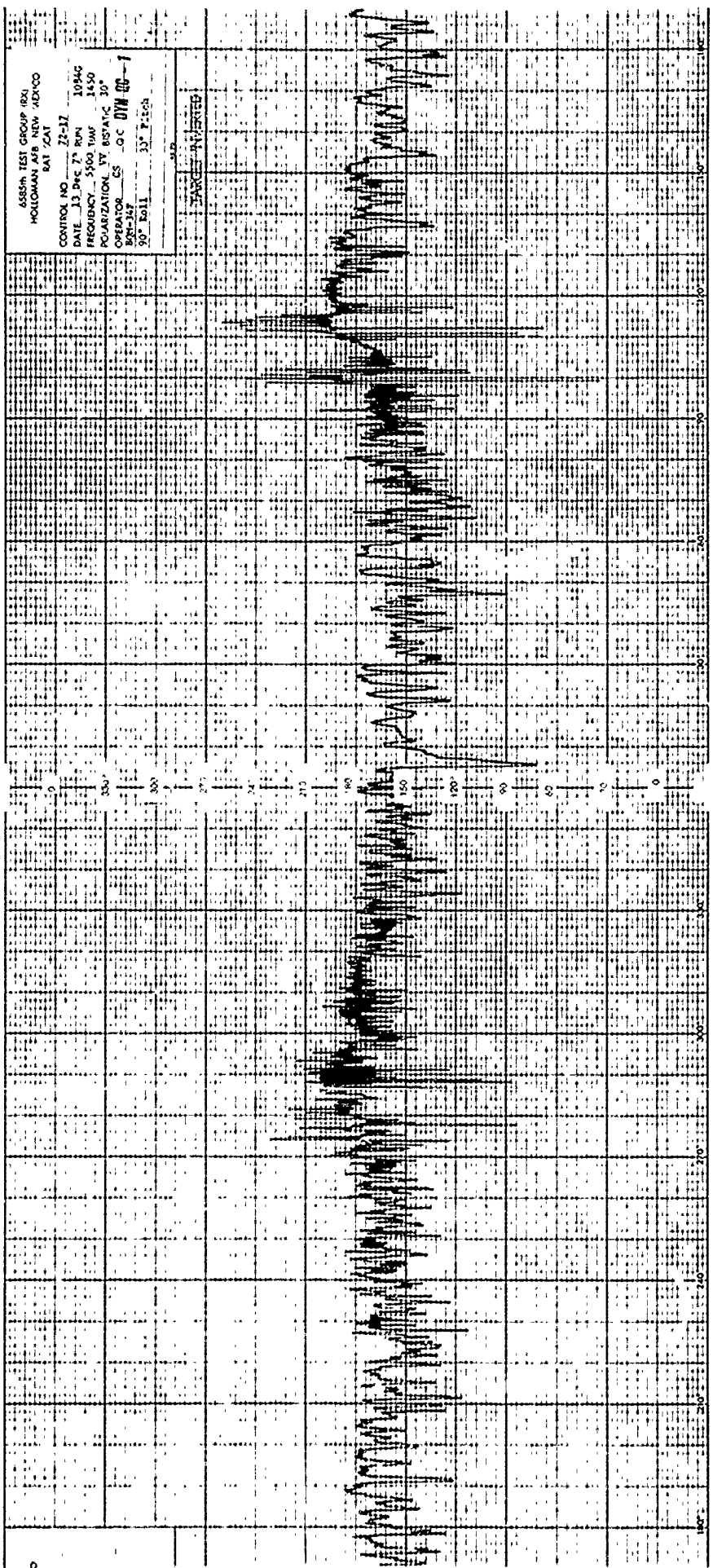
Target ID: 101

6585th TEST GROUP (R3)
 HOLLAMAN AFB, NEW MEXICO
 BAT SCAT
 CONTROL NO. 22-37
 DATE 11 Dec 71 RGN 105AL
 FREQUENCY 3500 MHz 1450
 POLARIZATION BY BEATING 30°
 OPERATOR CS OC 018 10-3
 200-347
 30° Pitch

TARGET TRACKED

Sub-PWM Reference Wave 7.2-2.0sec

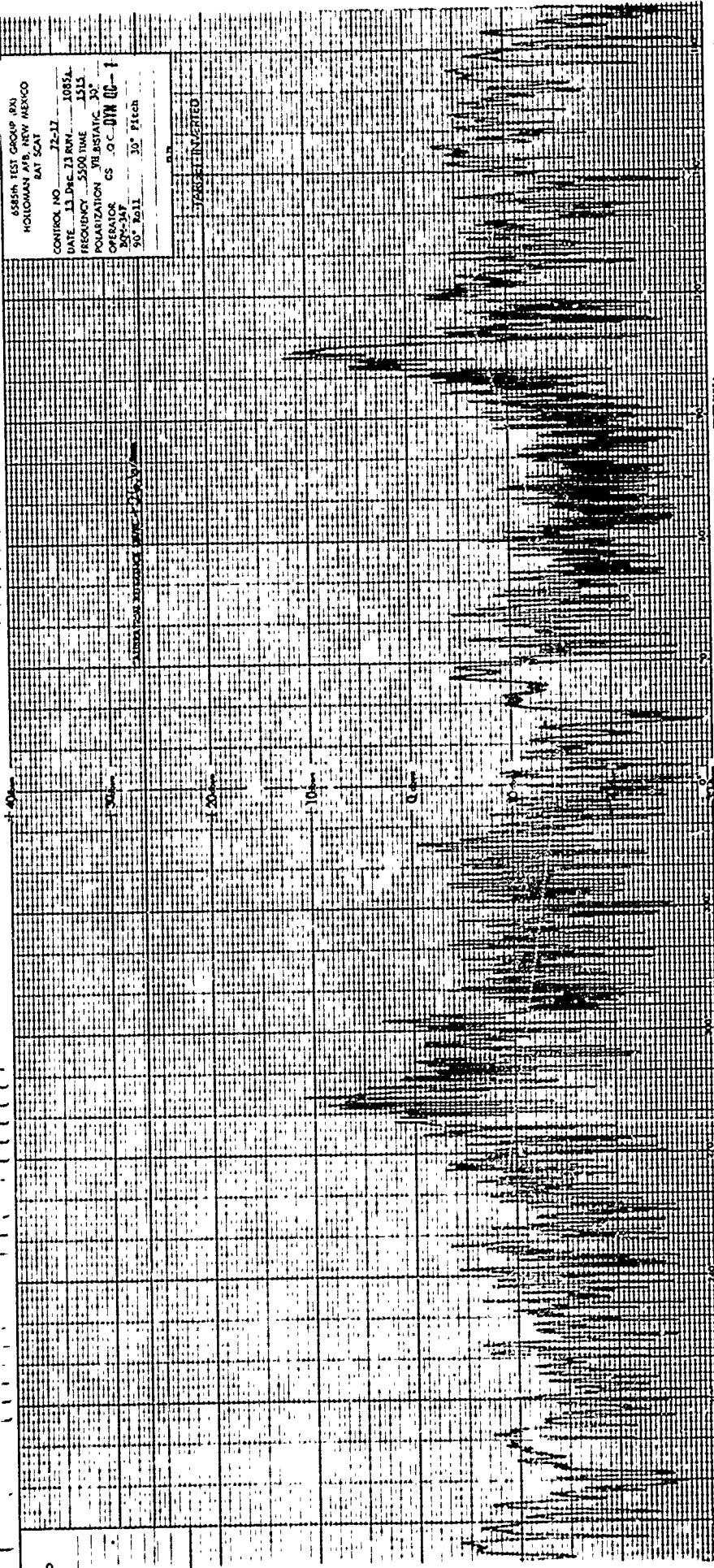


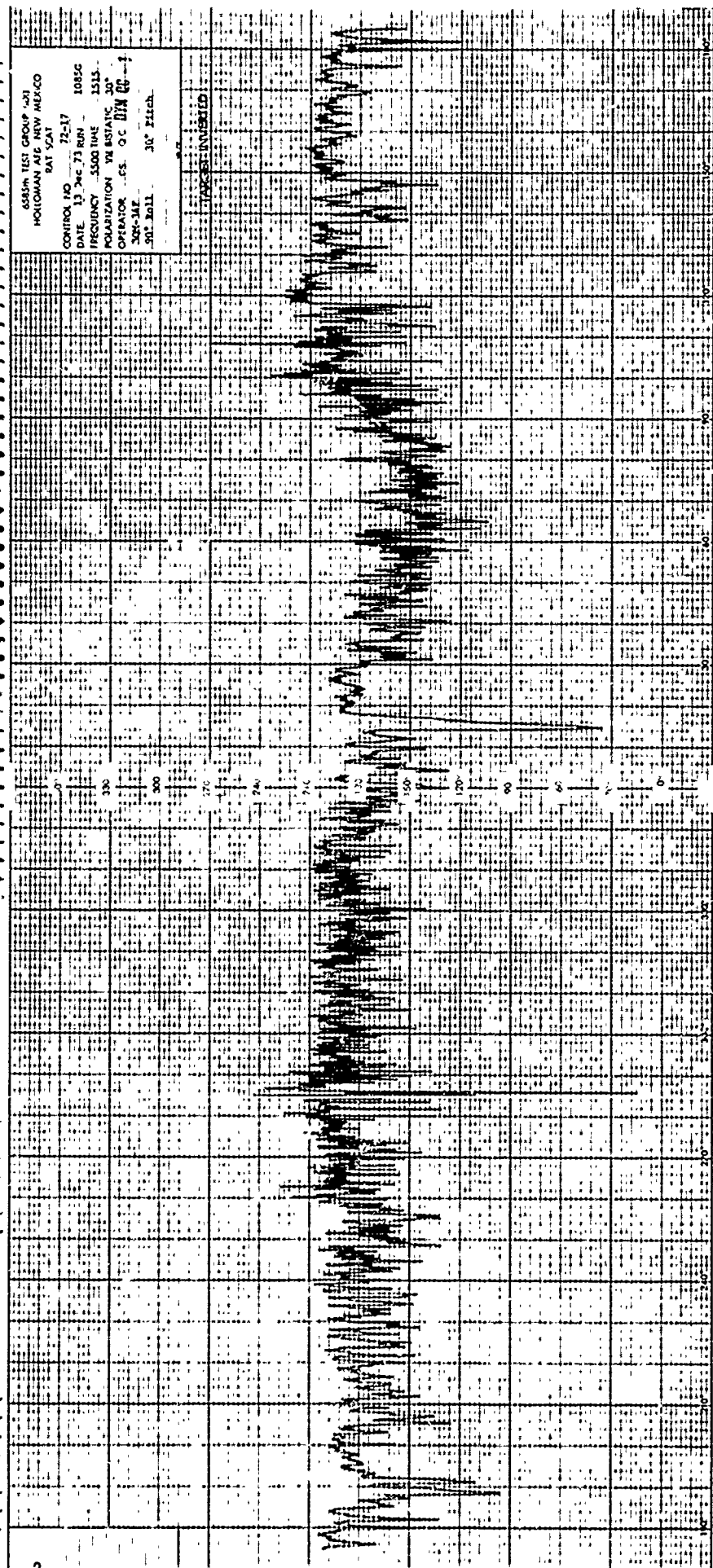


6588th TEST GROUP (R)
HOLLAMAN AFB, NEW MEXICO
BAT SCAT

CONTROL NO. 72-17
DATE 13 Dec 73 RUN 10854
FREQUENCY 5500 TIME 1515
POLARIZATION VERTICAL 30°
OPERATOR CS J.C. DVM CC-1
30° Az 30° Pitch

TARGET INVERTED





6583th TEST GROUP 421
HOLLOMAN AFB NEW MEXICO
BAT 5241
CONTROL NO 72-17
DATE 13 May 73 RUN 1085G
FREQUENCY 5500 MHz 1515
POLARIZATION PM INSTANT 30°
OPERATOR GS OC DW CC
SW-ME 30° Pitch
JUL 2011

TARGET IDENTIFIED